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April 5, 2010

RCAP RECEIVED

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Mr. Robert E. Aston, PG
Corrective Action Officer
United States Environmental Protection Agency, Region 7
901 N. Fifth Street
Kansas City, Kansas 66101

RE: 2010 Annual Site Sampling Report
Sauer-Danfoss Facility – Ames, Iowa

Dear Mr. Aston:

The following letter report constitutes the 2010 Annual Site Sampling Report for the Sauer-Danfoss Company (Sauer-Danfoss) site in Ames, Iowa. Included is a summary of system operation, remedial system monitoring, and annual reporting.

SYSTEM OPERATION

Between January 1, 2009 and December 31, 2009, approximately 1,723,875 gallons were pumped from the collection sump and discharged to the City of Ames, Iowa sanitary sewer.

Operational Issues

Semiannual remedial system maintenance was conducted on June 4, 2009 and November 19, 2009 by Fehr-Graham & Associates (FGA) and Mechanical Comfort, Inc. personnel. During the June 4, 2009 maintenance, it was found that the computer controller's signal wire sustained water damage and required replacement to correctly read the sump water level. Mechanical Comfort, Inc. was instructed to make the proper repairs. Summaries of the semiannual maintenance activities are provided in Attachment 1.

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Typical trench capture of 40 feet to 100 feet downgradient of the trench in the vicinity of piezometers PZ-1 and PZ-2, and monitoring well MW-19 has been historically observed, suggesting constituent migration beyond the trench is captured during normal system operation. Analysis of groundwater samples collected from monitoring well MW-33 during the October 2009 annual sampling event found tetrachloroethene (PCE) concentrations (3.18 ug/L) below the Maximum Contaminant Level (MCL) of 5 ug/L as compared to the October 2008 annual sampling event where PCE concentrations (19.9 ug/L) were above the MCL. This suggests some level of trench capture under normal system operation; whereas the sporadic system operations observed in 2008 may have resulted in compromised trench capture.

Trench capture in the area of monitoring well MW-12 has been less definitive, where the groundwater elevation has been measured below the high water level setpoint of the trench. Analysis of groundwater samples collected from monitoring well MW-12 have historically shown constituent concentrations below reporting limits, suggesting some level of capture in the vicinity. Groundwater samples could not be collected from monitoring well MW-12 during the October 2009 annual sampling event as the well was found dry.

REMEDIAL SYSTEM MONITORING

As required by Sauer-Danfoss facility's Non-Domestic Wastewater Discharge Permit (Permit No. 6593-7) issued by the City of Ames Water and Pollution Control Department (WPCD), samples were collected quarterly from the remedial system discharge and analyzed for select constituents listed in Table 1. Laboratory results are presented in Table 2. Note: copies of the lab results for each quarter were reissued at a later date to correctly report the requested constituents. Copies of the 2009 quarterly reports submitted to the City of Ames WPCD are included in Attachment 2.

ANNUAL SAMPLING

Groundwater Elevation

Groundwater elevations were measured in on-site monitoring wells during the October 2009 annual sampling event. Groundwater elevations are summarized in Table 3 and Figure 1. The water level in the sump was measured at 937.47 feet National Geodetic Vertical Datum (NGVD). Assuming the groundwater elevation in the collection trench was equal to that measured in the sump, resulting groundwater elevation contours show groundwater flow toward the collection trench throughout the site (see Figure 1).

The sump high water level setpoint is 941.21 feet NGVD. During the October 2009 annual sampling event, the groundwater elevation at monitoring well MW-19 was above the sump high water level setpoint, while the groundwater elevation at monitoring well MW-12 was lower than the high water level setpoint. Analyses of groundwater samples collected from monitoring well MW-12 has historically shown constituent concentrations below laboratory quantitation limits, suggesting impacted groundwater is being intercepted by the collection trench. However, analysis of groundwater samples collected during the October 2008 annual sampling event show PCE concentrations above the MCL. A comparison could not be made during the October 2009 sampling event as monitoring well MW-12 was dry. The groundwater elevation at monitoring well MW-18 was also found to be lower than the high water level setpoint. Monitoring well MW-18 was dry and could not be sampled during the October 2009 sampling event.

Groundwater Volatile Organic Compound (VOC) Constituents

Annual groundwater sampling was conducted on October 15, 2009, in accordance with the 1996 Sampling and Analysis Plan (SAP) (revised in October 2003, September 2004, and September 2006). Monitoring wells MW-12, MW-18, MW-19, MW-20, MW-R30, MW-31, and MW-33 were sampled to monitor the performance of the remedial system in providing hydraulic containment of the VOC plume. The sampling protocol for low-recovery wells detailed in the US Army Corps of Engineers *Revised Standard Operating Procedure for Low-flow Groundwater Purging and Sampling*, as incorporated into the SAP, was utilized for monitoring wells exhibiting low groundwater recovery; while the sampling protocol for low-flow sampling specified in the SAP was utilized for the remainder of the selected monitoring wells. The bladder pump intake was positioned at the midpoint of the well screen. Groundwater was directed from the pump discharge tubing into a flow-through cell to track water quality parameters of pH, specific conductance, turbidity, dissolved oxygen (DO), and temperature. Groundwater samples were collected following stabilization of all water quality parameters. Groundwater sampling and final water quality stabilization data is presented in Table 4. Following purging, the pump tubing was disconnected from the flow-through cell, and groundwater samples were collected. Of special note:

MW-12: The water column in this well was found to be less than one (1) foot. Low-flow sampling could not be conducted at this well and no sample was collected.

MW-18: The water column in this well was found to be less than one (1) foot. Low-flow sampling could not be conducted at this well and no sample was collected.

Groundwater samples were analyzed for the constituents listed in Table 1. Results are shown in Table 5, as well as in Figure 2. Laboratory analytical results are provided in Attachment 3. Table 5 compares 2009 analytical results with respective historical concentrations obtained during the following sampling events:

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- September/October 1994 (Harding Lawson Associates, June 1995 Report)
- November 21, 1997 (Montgomery Watson, February 23, 1998, Annual Sampling Report)
- October 20, 1998 (Montgomery Watson, March 1, 1999, Annual Site Sampling Report)
- October 20, 1999 (Montgomery Watson, February 28, 2000, Annual Site Sampling Report)
- November 9, 2000 (Montgomery Watson, March 21, 2001, Annual Site Sampling Report)
- November 6, 2001 (MWH, April 8, 2002, Annual Site Sampling Report)
- October 22, 2002 (MWH, May 5, 2003, Annual Site Sampling Report)
- November 17-19, 2003 (MWH, September 27, 2004, Annual Site Sampling Report)
- November 8-19, 2004 (MWH, May 25, 2005, Annual Site Sampling Report)
- November 14-16, 2005 (MWH, June 28, 2006, Annual Site Sampling Report)
- November 13-17, 2006 (MWH, April 26, 2007, Annual Site Sampling Report)
- October 8-10, 2007 (MWH, July 31, 2008, Annual Site Sampling Report)
- October 27-31, 2008 (FGA, March 26, 2009, Annual Site Sampling Report)

A comparative summary of samples collected via low-flow sampling is provided below:

- Constituent concentrations in monitoring well MW-33 have remained below laboratory quantitation limits, with the exception of PCE in 2008 and 2009. The PCE concentration in 2008 (19.9 ug/L) was above the MCL of 5 ug/L. The PCE concentration in 2009 (3.18 ug/L) is below the MCL.
- Constituent concentrations in monitoring wells MW-12 and MW-31 have remained below laboratory quantitation limits, with the exception of PCE in 2008, which found levels above the MCL of 5 ug/L. The PCE concentration in 2009 at monitoring well MW-31 (5.72 ug/L) is above the MCL of 5 ug/L. No sample was collected from monitoring well MW-12 in 2009 due to low water level, thus no comparison could be made.

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- Constituent concentrations in monitoring well MW-R30 are below laboratory quantitation limits, with the exception of PCE; 1,1,1-trichloroethane (1,1,1-TCA); and trichloroethene (TCE). The PCE and TCE concentrations (63.6 ug/L for PCE and 37.6 ug/L for TCE) are above the MCL of 5 ug/L for both chemicals. Up to the 2009 annual sampling event, monitoring well MW-R30 has historically shown constituent concentrations below laboratory quantitation limits.
- Constituent concentrations in monitoring well MW-19 were generally similar, if not slightly higher, than those observed in October 2008. The PCE concentration (38 ug/L) is above the MCL of 5 ug/L. Concentrations of 1,1-dichloroethane (1,1-DCA); cis-1,-2-dichloroethene (cis-1,2-DCE); 1,4-dioxin; and TCE were greater than those observed in October 2008, but concentrations remained below their respective MCL/Preliminary Remediation Goal (PRG).
- Constituent concentrations in monitoring well MW-20 were generally similar to those observed in October 2008. Concentrations of 1,1-dichloroethene (1,1-DCE); 1,4-dioxane; PCE; and TCE continued on a downward trend, but remain above their respective MCL/PRG. Concentrations of trans-1,2-dichloroethene (trans-1,2-DCE); 1,1,1-TCA; and 1,1,2-trichloroethane (1,1,2-TCA) were greater than those observed in October 2008, but all concentrations remained below their respective MCL/PRG.

Shallow groundwater isoconcentration contour maps and hydrogeologic profiles for VOCs historically and/or currently exceeding MCLs/PRGs (1,1-DCA; 1,2-DCA; 1,1-DCE; cis-1,2-DCE; 1,4-dioxane; methylene chloride; PCE; 1,1,1-TCA; 1,1,2-TCA; TCE; and vinyl chloride) are provided in Figures 3 through 25.

Graphs of historical 1,1-DCA; 1,1-DCE; cis-1,2-DCE; PCE; 1,1,1-TCA; 1,1,2-TCA; TCE; and vinyl chloride concentrations in monitoring wells MW-10, MW-11, MW-R13, MW-19, and MW-20 are provided in Figures 26 through 33. Generally decreasing concentrations continue for constituents in monitoring wells MW-19 and MW-20.

Data Validation

All samples were analyzed for both the constituents specified in the Construction Work Plan and 1,4-dioxane within the EPA Method SW-8260B maximum holding time of 14 days. Samples collected on October 15, 2009, were delivered to the laboratory on October 15, 2009 within two (2) hours of final collection and refrigerated upon receiving. Samples were received at the laboratory at a temperature of 7.5 degrees Celsius; samples were received on ice. It should be noted that the groundwater temperature was between approximately zero (0) and fourteen (14) degrees Celsius during the sampling. Analysis of all equipment blanks indicated constituent concentrations were below laboratory quantitation limits. The trip blank was inadvertently left out of the cooler and not analyzed.

A duplicate sample was collected from monitoring well MW-19 and submitted to the laboratory labeled as D01. The Relative Percent Differences (RPDs) between the MW-19 sample and its duplicate was within 20 percent for all constituents. Calculated RPDs are summarized in Table 6.

Surrogate compound recovery was within the acceptable range for all samples evaluated. Matrix spike (MS) / matrix spike duplicate (MSD) recovery was within the acceptable range for all but one (1) of the samples evaluated, where the TCE recovery for the MSD was 53 percent. The RPDs between MS and MSD samples were within the acceptable level with the exception of one (1) sample, where the RPD between the MS and MSD for 1,1-DCE was at 28 and above the laboratory control limit of 20.

NEXT STEPS

As required by Permit No. 6593-7, quarterly system sampling will continue, and samples will continue to be analyzed for the select constituents listed in Table 1. Groundwater monitoring wells MW-12 and MW-33 will be sampled in April 2010 based on a conference call with Sauer-Danfoss, the EPA, and FGA on January 26, 2010.

The thirteenth (13th) annual sampling event will be conducted during the fourth (4th) quarter of 2010. To maintain the homogeneity of past sampling events, low-flow sampling methods will continue to be employed at the site. Groundwater elevations will be measured in all monitoring wells during the scheduled sampling event. Samples will be collected from monitoring wells MW-10, MW-11, MW-12, MW-R13, MW-18, MW-19, MW-20, MW-R30, MW-31, MW-32, and MW-33, and analyzed for constituents listed in Table 1. The 2011 Annual Site Sampling Report will be prepared and submitted to the US EPA in or about March 2011. In an effort to reduce the remediation timeline, contaminant-source treatment may be considered.

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If you have questions regarding this report, please do not hesitate to call Joel Zirkle at (815) 394-4700.

Best regards,



Erin E. Jarrett
Environmental Specialist



Joel P. Zirkle, P.G.
Branch Manager

EEJ/JPZ:cld

cc: Mr. Ken Foltz/Sauer-Danfoss, Inc.-Freeport, IL
Mr. Gary Erickson/Sauer-Danfoss Company-Ames, IA

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ATTACHMENTS

Attachment 1 – 2009 Semiannual Remedial System Maintenance Memorandums

Attachment 2 – 2009 Quarterly Monitoring Reports

Attachment 3 – Laboratory Report for 2009 Annual Sampling

TABLES

TABLE 1
ANALYTE LIST

Acetone*
1,1-Dichloroethane*
1,2-Dichloroethane
1,1-Dichloroethene*
cis-1,2-Dichloroethene*
trans-1,2-Dichloroethene
1,4 Dioxane**
Methylene Chloride
Tetrachloroethene*
1,1,1-Trichloroethane*
1,1,2-Trichloroethane
Trichloroethene*
Vinyl Chloride***
Total Xylenes*

* Required by Sauer-Danfoss's Permit No. 6593-3.

** Required for select monitoring wells.

*** Beginning second quarter 2002, as requested in the United States Environmental Protection Agency (US EPA) comments on the 2002 Annual Site Sampling Report.

TABLE 2
SAMPLING RESULTS OF REMEDIAL SYSTEM DISCHARGE

| Date | Acetone ($\mu\text{g/L}$) | 1,1-DCA ($\mu\text{g/L}$) | 1,1-DCE ($\mu\text{g/L}$) | cis-1,2-DCE ($\mu\text{g/L}$) | PCE ($\mu\text{g/L}$) | 1,1,1-TCA ($\mu\text{g/L}$) | TCE ($\mu\text{g/L}$) | Xylenes ($\mu\text{g/L}$) |
|----------------------|--------------------------------|--------------------------------|--------------------------------|------------------------------------|----------------------------|----------------------------------|----------------------------|--------------------------------|
| Maximum ^a | 44 | 370 | 170 | 490 | 1700 | 650 | 110 | 11 |
| 2/13/2009 | 280 | 8.6 | 17 | 67 | 390 | 59 | 21 | 5.5 |
| 5/28/2009 | <5.0 | 4.3 | 7.9 | 26 | 280 | 33 | 13 | <2.0 |
| 7/27/2009 | <5.0 | 8.1 | 12 | 43 | 530 | 44 | 19 | <2.0 |
| 10/16/2009 | <5.0 | 10 | 12 | 60 | 410 | 48 | 21 | <2.0 |

^a Maximum expected concentrations as provided to the City of Ames Water and Pollution Control Department (WPCD) on July 31, 1996.

$\mu\text{g/L}$ = Micrograms per liter.
 1,1-DCA = 1,1-Dichloroethane.
 1,1-DCE = 1,1-Dichloroethene.
 cis-1,2-DCE = cis-1,2-Dichloroethene.
 PCE = Tetrachloroethene.
 1,1,2-TCA = 1,1,2-Trichloroethane.
 TCE = Trichloroethene.
 NA = Not applicable.

TABLE 3
GROUNDWATER ELEVATIONS

| Well No. | Top of Casing | Total Depth | Top of Screen | Initial GW Elevation | |
|----------------------|----------------|----------------|----------------|----------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------|
| | NGVD Elevation | NGVD Elevation | NGVD Elevation | 2/4/1997 to 02-06-97 | 11/21/1997 | 10/20/1998 | 11/9/2000 | 11/6/2001 | 10/22/2002 | 11/17/2003 | 11/9/2004 | 11/14/2005 | 11/13/2006 | 10/8/2007 | 10/27/2008 | 10/15/2009 | |
| Shallow Wells | | | | | | | | | | | | | | | | | |
| 1 | 973.71 | 941.20 | 951.20 | 967.40 | 966.69 | 967.08 | 966.30 | 967.26 | 967.12 | 967.36 | 967.10 | 967.29 | a | a | a | a | |
| R2S | 970.49 | 949.30 | 959.30 | 961.94 | 962.28 | 962.79 | 961.46 | 963.23 | 962.05 | 961.86 | 962.69 | 962.31 | 961.09 | 962.21 | 962.34 | 962.94 | 962.41 |
| 3 | 969.05 | 953.90 | 961.90 | 963.28 | 964.01 | 964.13 | 962.45 | 963.88 | 963.57 | 963.17 | 964.15 | 963.64 | a | a | a | a | |
| 4 | 970.39 | 953.10 | 964.10 | 965.11 | 965.10 | 965.18 | 963.98 | 965.06 | 965.01 | 964.67 | 965.15 | 964.89 | a | a | a | a | |
| 5 | 965.82 | 950.40 | 960.40 | 958.03 | 957.18 | 957.53 | 956.19 | 957.37 | 957.68 | 957.07 | 957.99 | 957.81 | 955.99 | 958.51 | 958.66 | 958.30 | 957.44 |
| R6S | 965.39 | 946.00 | 956.00 | 957.46 | 956.47 | 956.97 | 956.61 | 956.61 | 956.85 | 956.28 | 956.94 | 957.26 | 955.33 | 957.92 | 958.30 | 957.70 | 956.85 |
| 10 | 964.22 | 945.70 | 948.70 | 955.10 | 954.36 | 954.38 | 953.85 | 954.23 | 954.93 | 954.47 | 954.46 | 954.70 | 953.69 | 955.57 | 954.93 | 955.12 | 954.12 |
| 11 | 963.26 | 942.60 | 945.60 | 958.06 | 951.42 | 951.12 | 950.89 | 950.64 | 951.76 | 951.62 | 951.21 | 951.28 | 950.86 | 952.29 | 951.56 | 951.67 | 950.9 |
| 12 | 959.70 | 936.80 | 939.80 | 948.96 | 938.23 | 942.24 | 939.42 | 938.82 | 939.56 | 940.91 | 940.11 | 940.51 | 938.78 | 939.94 | 939.19 | 939.88 | 938.05 |
| R13 | 965.67 | 941.70 | 951.70 | 956.85 | 956.04 | 955.89 | 954.17 | 955.46 | 957.14 | 956.40 | 956.31 | 956.37 | 954.58 | 957.79 | 957.22 | 957.68 | 955.94 |
| R14 | 965.83 | 946.10 | 956.10 | 954.86 | 953.04 | 953.38 | 953.31 | 952.07 | 954.69 | 954.43 | 953.07 | 953.35 | 952.52 | 954.93 | 954.18 | 955.06 | 953.28 |
| 15 | 957.99 | 935.20 | 938.20 | 951.98 | 949.09 | 949.27 | 948.22 | 947.29 | 950.76 | 950.62 | 950.06 | 949.90 | 948.77 | 951.29 | 950.46 | 951.52 | 949.78 |
| 16 | 965.90 | 943.33 | b | 954.98 | 951.80 | 952.41 | 952.65 | 950.17 | 954.51 | 954.16 | 954.39 | 953.03 | 951.09 | 954.51 | 954.14 | 955.40 | 952.96 |
| 18 | 956.73 | 938.80 | 941.80 | 950.34 | 948.66 | 948.78 | 948.28 | 942.43 | 948.61 | 948.82 | 949.60 | 949.30 | 948.03 | 949.66 | 949.30 | 950.67 | 939.61 |
| 19 | 954.31 | 936.60 | 939.60 | 947.67 | 944.63 | 945.43 | 944.55 | 943.15 | 945.04 | 945.31 | 944.91 | 945.54 | 945.27 | 945.55 | 945.80 | 946.32 | 945.58 |
| 20 | 956.66 | 939.40 | 942.40 | 950.36 | 945.88 | 946.48 | 944.90 | 942.83 | 946.08 | 947.14 | 946.42 | 946.33 | 945.50 | 947.54 | 946.56 | 947.23 | 945.88 |
| 28 | 957.17 | 938.70 | 941.70 | 952.54 | 952.37 | 952.46 | 952.21 | 952.63 | 952.48 | 952.30 | 952.51 | 952.44 | 952.18 | 952.94 | 952.90 | 952.06 | 951.69 |
| 29 | 955.57 | 941.40 | 944.40 | 950.69 | 949.87 | 949.95 | 949.39 | 950.23 | 949.90 | 949.83 | 950.11 | 949.71 | 949.46 | 950.63 | h | h | h |
| 31 | 953.60 | 936.50 | 946.50 | 947.81 | 946.97 | 946.99 | 947.01 | 947.43 | 947.37 | 947.24 | 946.97 | 946.85 | 946.84 | 946.99 | 947.12 | 946.81 | 946.85 |
| PZ-1 | 953.81 | 927.30 | b | 948.99 | 945.59 | 945.84 | 944.51 | 946.08 | 945.67 | 945.84 | 946.41 | 946.20 | 946.15 | 946.93 | 946.61 | 946.26 | 942.95 |
| PZ-2 | 951.42 | 925.86 | b | 947.96 | 941.42 | 942.26 | 940.06 | 939.27 | 941.67 | 942.36 | 941.89 | 942.42 | 941.38 | 943.61 | 941.63 | 943.35 | d |
| 33 | 951.67 | 929.24 | 939.24 | c | c | c | c | c | c | c | c | c | 943.95 | 946.52 | 947.28 | 947.55 | 945.97 |

TABLE 3

GROUNDWATER ELEVATIONS

| Well No. | Top of Casing NGVD Elevation (ft) | Total Depth NGVD Elevation (ft) | Top of Screen NGVD Elevation (ft) | Initial GW Elevation 2/4/1997 to 02-06-97 (ft) | GW Elevation 11/21/1997 (ft) | GW Elevation 10/20/1998 (ft) | GW Elevation 10/20/1999 (ft) | GW Elevation 11/9/2000 (ft) | GW Elevation 11/6/2001 (ft) | GW Elevation 10/22/2002 (ft) | GW Elevation 11/17/2003 (ft) | GW Elevation 11/9/2004 (ft) | GW Elevation 11/14/2005 (ft) | GW Elevation 11/13/2006 (ft) | GW Elevation 10/8/2007 (ft) | GW Elevation 10/27/2008 (ft) | GW Elevation 10/15/2009 (ft) |
|----------------------------|-----------------------------------|---------------------------------|-----------------------------------|------------------------------------------------|------------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------|------------------------------|------------------------------|
| Deep Wells | | | | | | | | | | | | | | | | | |
| R2D | 970.41 | 928.30 | 933.30 | 960.53 | 961.84 | 961.73 | 961.03 | 961.55 | 961.47 | 961.50 | 961.89 | 961.62 | 960.72 | 961.69 | 961.56 | 962.21 | 961.77 |
| R17 | 965.77 | 875.60 | 880.60 | 944.25 | 942.79 | 943.57 | 943.79 | 942.17 | 943.08 | 943.30 | d | 942.55 | 942.26 | 942.19 | 943.22 | 943.14 | 943.12 |
| R30 | 958.21 | 902.40 | 907.40 | 950.15 | 947.05 | 947.73 | 947.35 | 947.52 | 947.71 | 948.03 | 947.80 | 947.78 | 947.60 | 948.40 | 948.04 | 947.63 | 945.46 |
| 32 | 954.16 | 897.70 | 907.70 | 944.09 | 942.90 | 943.08 | 940.04 | 943.25 | 943.23 | 943.31 | 943.38 | 943.19 | 943.18 | 943.62 | 943.49 | 943.37 | 941.51 |
| Sump and Collection Trench | NA | NA | NA | NA | 938.71 ^e | 941.23 | 940.49 | 939.14 | 940.73 | 942.06 | 939.44 | 939.05 | 939.13 ^f | 939.20 ^g | 939.4 | 938.92 ⁱ | 937.47 |

Notes:

- a Monitoring well abandoned October 27, 2005.
- b Unknown.
- c Monitoring well installed October 27, 2005.
- d Monitoring well inadvertently overlooked during sampling event.
- e Estimated.
- f Water level measured December 13, 2005.
- g Water level measured November 17, 2006.
- h Inaccessible; monitoring well collapsed.
- i Water level measured October 28, 2008

NGVD = National Geodetic Vertical Datum.

GW = Groundwater.

NA = Not applicable/available.

ft = Feet.

TABLE 4
GROUNDWATER SAMPLING FINAL STABILIZATION DATA

| Monitoring Well | Time Sampled | Depth to Water (ft) ^a | pH ^b | Specific Conductance ^c (mS/cm) | Temperature ^d (°C) | DO (mg/L) ^e | Turbidity (NTU) ^f |
|-----------------|--------------|----------------------------------|-----------------|-------------------------------------------|-------------------------------|------------------------|------------------------------|
| MW-12 | DRY | 21.65 | ----- | ----- | ----- | ----- | ----- |
| MW-18 | DRY | 17.12 | ----- | ----- | ----- | ----- | ----- |
| MW-19 | 16:00 | 8.73 | 8.80 | 0.74 | 12.00 | 0.39 | 270.00 |
| MW-20 | 17:00 | 10.78 | 8.87 | 0.718 | 12.41 | 0.36 | 39.00 |
| MW-31 | 11:30 | 6.75 | 8.95 | 3.010 | 13.66 | 0.34 | 249.00 |
| MW-33 | 14:35 | 5.70 | 8.82 | 0.759 | 13.42 | 0.51 | 217.00 |
| MW-R30 | 14:10 | 12.65 | 8.40 | 0.686 | 10.44 | 0.57 | 11.50 |

Notes:

- ^a Before sampling
- ^b Stabilization criteria: stabilized within +/- 0.1 pH units
- ^c Stabilization criteria: stabilized within +/- 3%
- ^d Stabilization criteria: stabilized within +/- 10%
- ^e Stabilization criteria: stabilized within +/- 0.3 mg/L
- ^f Stabilization criteria: stabilized within +/- 10 NTUs
- ft = Feet.
- mS/cm = Millisiemens per centimeter.
- °C = Degrees Celsius.
- DO = Dissolved oxygen.
- NTU = Nephelometric Turbidity Unit.
- NM = Not measured.

TABLE 5

GROUNDWATER ANALYTICAL RESULTS ($\mu\text{g/L}$)

| Monitoring Well | Date | Acetone | 1,1-DCA | 1,2-DCA | 1,1-DCE | cis-1,2-DCE | trans-1,2-DCE | 1,4-Dioxane | Methylene Chloride | PCE | 1,1,1-TCA | 1,1,2-TCA | TCE | Vinyl Chloride | Total Xylenes | |
|-----------------|----------------------------|--------------------|--------------------|------------------|---------|--------------------|------------------|-----------------|--------------------|-------|-----------|-----------|-------|--------------------|--------------------|----|
| | | MCL ^a | 5,500 ^b | 810 ^b | 5 | 7 | 70 | 100 | 6.1 ^b | 5 | 5 | 200 | 5 | 5 | 2 | 10 |
| MW-10 | Sep-Oct 1994 ^c | <25 | 9.6 ^d | <5.0 | 54 | 110 | <5.0 | - | <5.0 | 1,800 | 410 | <5.0 | 28 | - | <5.0 | |
| | 11/21/1997 | <20 | 16.4 | <1.0 | 35.7 | 135 | 1.6 | - | <10 | 766 | 162 | <1.0 | 54.5 | - | <3.0 | |
| | 10/20/1999 | <20 | 11.3 | <1.0 | 28.5 | 87.7 | <1.0 | - | <10 | 456 | 118 | <1.0 | 40.4 | - | <3.0 | |
| | 11/6/2001 | <20 | 10.5 | <1.0 | 22 | 104 | <1.0 | - | <5.0 | 424 | 120 | <1.0 | 53.2 | - | <3.0 | |
| | 10/22/2002 | <20 | 11.6 | <1.0 | 23.7 | 61.1 | 1.7 | - | <5.0 | 497 | 174 | <1.0 | 59.8 | <1.0 | <3.0 | |
| | 11/10/2004 | <20.0 | 14.7 | <1.00 | 37.6 | 49.6 | <1.00 | 12.4 | <5.00 | 625 | 223 | <1.00 | 42.9 | <1.00 | <3.00 | |
| | 11/15/2006 | <10.0 | 10 | <1.00 | 25.3 | 53.3 | 1.07 | 11 | <5.00 | 385 | 90.1 | <1.00 | 32.3 | <1.00 | <3.00 | |
| | 11-15-06 ^e | <10.0 | 10.8 | <1.00 | 23.9 | 49.7 | 1 | 14 ^f | <5.00 | 372 | 89.7 | <1.00 | 31.7 | <1.00 | <3.00 | |
| | 10/30/2008 (LF) | <10.0 | 13.6 | <1.00 | 35.6 | 32.6 | <1.00 | 12 | <5.00 | 405 | 188 | <1.00 | 30.9 | <1.00 | <3.00 | |
| | 10-30-08 ^g (LF) | <10.0 ^f | 14 | <1.00 | 35.7 | 35.1 | <1.00 | 15 | <5.00 | 421 | 194 | <1.00 | 31.5 | <1.00 | <3.00 | |
| MW-11 | Sep-Oct 1994 ^c | <25 | 44 | <5.0 | 130 | 730 | 7.1 ^d | - | <5.0 | 2,500 | 810 | 8 | 91 | - | <5.0 | |
| | 11/21/1997 | <200 ^g | 33.9 | <10 ^g | 57.6 | 676 | <10 ^g | - | <100 ^g | 1,460 | 280 | 1.8 | 61.9 | - | <30 ^g | |
| | 10/20/1999 | <20 | 20.2 | <1.0 | 25.3 | 384 | 2 | - | <10 | 610 | 121 | <1.0 | 44.8 | - | <3.0 | |
| | 11/6/2001 | <20 | 14.4 | <1.0 | 18 | 227 | 1.7 | - | <5.0 | 811 | 88.1 | <1.0 | 46.8 | - | <3.0 | |
| | 11-06-01 ^e | <20 | 15.1 | <1.0 | 18.2 | 233 | 1.8 | - | <5.0 | 585 | 87.8 | <1.0 | 44.9 | - | <3.0 | |
| | 10/22/2002 | <20 | 16.5 | <1.0 | 15.6 | 176 | 1.4 | - | <5.0 | 551 | 90.6 | <1.0 | 43.6 | <1.0 | <3.0 | |
| | 11/10/2004 | <20 | 12.8 | <1.00 | 15.4 | 88.9 | 1.92 | 10.4 | <5.00 | 420 | 134 | <1.00 | 34 | <1.00 | <3.00 | |
| | 11/15/2006 | <10.0 | 14.8 | <1.00 | 23.3 | 75.7 | 1.78 | 12 | <5.00 | 422 | 165 | <1.00 | 32.6 | <1.00 | <3.00 | |
| | 11-15-06 ^e | <10.0 | 15.5 | <1.00 | 26.3 | 79.6 | 1.73 | h | <5.00 | 426 | 172 | <1.00 | 35 | <1.00 | <3.00 | |
| | 10/30/2008 (LF) | <50 | 6.45 | <5.00 | 10.1 | 35.2 | <5.00 | 5.2 | <25.0 ^g | 355 | 90.6 | <5.00 | 18.4 | <5.00 ^g | <15.0 ^g | |
| | 10-30-08 ^g (LF) | <10.0 ^f | 8.32 | <1.00 | 14.1 | 37.5 | <1.00 | h | <5.00 | 391 | 131 | <1.00 | 21.5 | <1.00 | <3.00 | |
| MW-12 | Sep-Oct 1994 ^c | <25 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | - | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | - | <5.0 | |
| | 11/21/1997 | <10 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | - | <10 | <1.0 | <1.0 | <1.0 | <1.0 | - | <3.0 | |
| | 10/20/1998 | <20 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | - | <10 | <1.0 | <1.0 | <1.0 | <1.0 | - | <3.0 | |
| | 10/20/1999 | <20 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | - | <10 | <1.0 | <1.0 | <1.0 | <1.0 | - | <3.0 | |
| | 11/9/2000 | <20 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | - | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | - | <3.0 | |
| | 11/6/2001 | <20 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | - | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | - | <3.0 | |
| | 10/22/2002 | <20 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | - | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | - | <3.0 | |
| | 11/18/2003 | <20.0 | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 | <2.0 | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <3.00 | |
| | 11/9/2004 | <20.0 | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 | <2.0 | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <3.00 | |
| | 11/16/2005 | <20.0 | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 | <6 | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <3.00 | |
| | 11/15/2006 | <10.0 | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 | <2.0 | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <3.00 | |
| | 10/9/2007 | <10.0 | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 | <2.0 | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <3.00 | |
| | 10/27/2008 (PD) | <10.0 | <1.00 | <1.00 | <2.00 | <1.00 ^g | <1.00 | - | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <3.00 | |
| | 10/27/2008 (RP) | - | - | - | - | - | - | <2.0 | - | - | - | - | - | - | - | |
| | 10/27/2008 (LF) | <10.0 | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 | <2.0 | <5.00 | 12.9 | <1.00 | <1.00 | <1.00 | <1.00 | <3.00 | |
| | 10/15/2009 | u | u | u | u | u | u | u | u | u | u | u | u | u | u | |

TABLE 5

GROUNDWATER ANALYTICAL RESULTS ($\mu\text{g/L}$)

| Monitoring Well | Date | Acetone | 1,1-DCA | 1,2-DCA | 1,1-DCE | cis-1,2-DCE | trans-1,2-DCE | 1,4-Dioxane | Methylene Chloride | PCE | 1,1,1-TCA | 1,1,2-TCA | TCE | Vinyl Chloride | Total Xylenes |
|-----------------|----------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| | | MCL ^a | 5,500 ^b | 810 ^b | 5 | 7 | 70 | 100 | 6.1 ^b | 5 | 5 | 200 | 5 | 5 | 2 |
| MW-R13 | Sep-Oct 1994 ^c | <25 | 560 | 5.8 | 250 | 200 | <5.0 | - | 9.1 ^d | 1,100 | 970 | 30 | 72 | - | <5.0 |
| | 11/21/1997 | <400 ^g | 1,980 | <20 ^g | 1,120 | 81.2 | <20 ^g | - | <200 ^g | 1,200 | 3,140 | 159 | <20 | - | <60 ^g |
| | 10-20-99 ^j | <400 | 2,530 | <20 | 1,510 | 57.5 | <20 | - | <200 | 1,750 | 3,370 | 195 | <20 | - | <60 |
| | 11/6/2001 | <20 | 2,020 | 6.5 | 1,510 | 78.8 | 1.6 | - | 39 | 3,040 | 3,220 | 238 | 24.3 | - | <3.0 |
| | 10/22/2002 | <20 | 3,680 | 10.3 | 1,430 | 71.2 | <1.0 | - | 24.3 | 3,170 | 2,140 | 188 | 27.4 | 40.6 | <3.0 |
| | 11/10/2004 | <20.0 | 1,940 | 5.84 | 2,610 | 101 | 2.4 | 124 | 29.9 | 4,830 | 4,790 | 270 | 50.6 | <1.00 | <3.00 |
| | 11/14/2006 | <231 ^g | 2,480 | <8.00 ^g | 4,650 | 53 | <7.50 ^g | 74.6 | 196 ^d | 8,080 | 6,660 | 310 | 40.5 ^d | 106 | <8.50 ^g |
| | 10/30/2008 (PD) | <1000 ^g | 2,740 | <100 ^g | 5,890 | <100 ^g | <100 | - | <500 ^g | 8,580 | 7,970 | 337 | <100 ^g | <100 ^g | <300 ^g |
| | 10-30-08 ^e (PD) | <1000 ^g | 2,700 | <100 ^g | 5,800 | <100 ^g | <100 | - | <500 ^g | 8,020 | 8,060 | 346 | <100 ^g | <100 ^g | <300 ^g |
| | 10/30/2008 (RP) | - | - | - | - | - | - | 78 | - | - | - | - | - | - | - |
| | 10-30-08 ^e (RP) | - | - | - | - | - | - | 77 | - | - | - | - | - | - | - |
| | 10/31/2008 (LF) | <1000 ^g | 1,920 | <100 ^g | 3,460 | <100 ^g | <100 | 110 | <500 ^g | 5,480 | 4,720 | 221 | <100 ^g | <100 ^g | <300 ^g |
| MW-15 | 10/22/2002 | <20 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | - | <5.0 | 2.1 | <1.0 | <1.0 | <1.0 | <1.0 | <3.0 |
| MW-16 | 10/22/2002 | <20 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | - | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <3.0 |
| MW-18 | Sep-Oct 1994 ^c | <25 ^j | <5.0 ^j | <5.0 ^j | <5.0 ^j | <5.0 ^j | <5.0 ^j | - | <5.0 ^j | <5.0 | <5.0 ^j | <5.0 | <5.0 | - | 7.7 |
| | 11/21/1997 | <10 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | - | <10 | <1.0 | <1.0 | <1.0 | <1.0 | - | <3.0 |
| | 10/20/1998 | <20 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | - | <10 | <1.0 | <1.0 | <1.0 | <1.0 | - | <3.0 |
| | 10/20/1999 | <20 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | - | <10 | <1.0 | <1.0 | <1.0 | <1.0 | - | <3.0 |
| | 11/9/2000 | <20 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | - | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | - | <3.0 |
| | 11/6/2001 | <20 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | - | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | - | <3.0 |
| | 10/22/2002 | <20 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | - | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <3.0 |
| | 11/18/2003 | <20.0 | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 | <2.0 | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <3.00 |
| | 11/9/2004 | <20.0 | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 | <2.0 | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <3.00 |
| | 11/15/2005 | <20.0 | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 | <6 | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <3.00 |
| | 11/15/2006 | <10.0 ^k | <1.00 ^k | <1.00 ^k | <2.00 ^k | <1.00 ^k | <1.00 ^k | <2.0 ^k | 22.0 ^k | <1.00 ^k | <1.00 ^k | <1.00 ^k | <1.00 ^k | <1.00 ^k | <3.00 ^k |
| | 10/9/2007 | <10.0 | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 | <2.0 | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <3.00 |
| | 10/29/2008(LF) | <10.0 | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 | <2.0 | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <3.00 |
| | 10/15/2009 | u | u | u | u | u | u | u | u | u | u | u | u | u | u |

TABLE 5

GROUNDWATER ANALYTICAL RESULTS (µg/L)

| Monitoring Well | Date | Acetone | 1,1-DCA | 1,2-DCA | 1,1-DCE | cis-1,2-DCE | trans-1,2-DCE | 1,4-Dioxane | Methylene Chloride | PCE | 1,1,1-TCA | 1,1,2-TCA | TCE | Vinyl Chloride | Total Xylenes |
|-----------------|---------------------------|-------------------|--------------------|------------------|---------|-------------|------------------|-------------|--------------------|--------------------|-----------|-----------|------|--------------------|--------------------|
| | | MCL ^a | 5,500 ^b | 810 ^b | 5 | 7 | 70 | 100 | 6.1 ^b | 5 | 200 | 5 | 5 | 2 | 10 |
| MW-19 | Sep-Oct 1994 ^c | <25 | 130 | <5.0 | 140 | 150 | <5.0 | - | <5.0 | 1,600 ^d | 900 | 18 | 170 | - | <5.0 |
| | 11/21/1997 | <20 | 77.8 | <1.0 | 13.9 | 78.1 | 3.5 | - | <10 | 180 | 96 | 5.6 | 49.4 | - | <3.0 |
| | 11-21-97 ^e | <20 | 80.2 | <1.0 | 20.3 | 79.3 | 4.1 | - | <10 | 190 | 120 | 5.3 | 52.5 | - | <3.0 |
| | 10/20/1998 | <20 | 57.2 | <1.0 | 24.5 | 88.3 | 2.2 | - | <10 | 206 | 163 | 6.6 | 55.2 | - | <3.0 |
| | 10/20/1999 | <20 | 58.8 | <1.0 | 43.4 | 106 | 2.1 | - | <10 | 374 | 220 | 7.1 | 73.4 | - | <3.0 |
| | 11/9/2000 | <20 | 35.6 | <1.0 | 10 | 17.9 | <1.0 | - | <5.0 | 213 | 30.6 | <1.0 | 21.9 | - | <3.0 |
| | 11/6/2001 | <20 | 9.6 | <1.0 | 7.9 | 13.2 | <1.0 | - | <5.0 | 187 | 45.4 | 1 | 14.8 | - | <3.0 |
| | 10/22/2002 | <20 | 5.1 | <1.0 | 5 | 8.9 | <1.0 | - | <5.0 | 130 | 38.9 | <1.0 | 11.2 | <1.0 | <3.0 |
| | 11/18/2003 | <20.0 | 11.7 | <1.00 | 21.9 | 19.7 | <1.00 | 14.6 | <5.00 | 235 | 101 | 1.28 | 24.3 | <1.00 | <3.00 |
| | 11/9/2004 | <20.0 | 2.8 | <1.00 | 5.77 | 4.72 | <1.00 | 9.4 | <5.00 | 129 | 26.3 | <1.00 | 9.23 | <1.00 | <3.00 |
| | 11-09-04 ^e | <20.0 | 2.7 | <1.00 | 5.41 | 4.77 | <1.00 | 9.8 | <5.00 | 122 | 26.2 | <1.00 | 9.75 | <1.00 | <3.00 |
| | 11/16/2005 | <20.0 | 2.15 | <1.00 | 3.45 | 3.19 | <1.00 | <6 | <5.00 | 76.4 | 15.4 | <1.00 | 4.76 | <1.00 | <3.00 |
| | 11-16-05 ^e | <20.0 | 2.33 | <1.00 | 3.69 | 3.24 | <1.00 | <6 | <5.00 | 73.4 | 15.3 | <1.00 | 4.76 | <1.00 | <3.00 |
| | 11/17/2006 | <10.0 | 5.97 | <1.00 | 9.85 | 7.41 | <1.00 | 17 | <5.00 | 124 | 32.7 | <1.00 | 8.75 | <1.00 | <3.00 |
| | 10/10/2007 | <10.0 | <1.00 | <1.00 | 6.31 | 1.98 | <1.00 | 5 | <5.00 | 64.5 | 2.66 | <1.00 | 3.52 | <1.00 | <3.00 |
| | 10/10/2007 | <10.0 | <1.00 | <1.00 | 6.49 | 1.75 | <1.00 | 5.1 | <5.00 | 67.2 | 2.46 | <1.00 | 3.37 | <1.00 | <3.00 |
| | 10/29/2008(LF) | <10.0 | 1.12 | <1.00 | 2.05 | 1.27 | <1.00 | <2.0 | <5.00 | 40 | 7.66 | <1.00 | 1.9 | <1.00 | <3.00 |
| | 10/15/2009 | <10.0 | 1.6 | <1.00 | <2.00 | 3.41 | <1.00 | 3.5 | <5.00 | 38 | 6.83 | <1.00 | 3.64 | <1.00 | <4.00 |
| | 10-15-09 ^e | <10.0 | 1.56 | <1.00 | 2.2 | 3.72 | <1.00 | 3.1 | <5.00 | 38.2 | 6.71 | <1.00 | 4.06 | <1.00 | <4.00 |
| MW-20 | Sep-Oct 1994 ^c | <25 | 70 | <5.0 | 110 | 90 | <5.0 | - | <5.0 | 1,800 | 760 | 20 | 26 | - | <5.0 |
| | 11/21/1997 | <200 ^g | 130 | <10 ^g | 70 | 230 | <10 ^g | - | <100 ^g | 1,020 | 316 | 14.4 | 38.2 | - | <30 ^g |
| | 10/20/1998 | <20 | 77.6 | <1.0 | 61.2 | 221 | 4.6 | - | <10 | 1,450 | 304 | 11.4 | 51.2 | - | <3.0 |
| | 10-20-98 ^e | <20 | 68.8 | <1.0 | 73.4 | 219 | 3.2 | - | <10 | 1,490 | 307 | 11.7 | 50.9 | - | <3.0 |
| | 10/20/1999 | <40 | 58.9 | <2.0 | 47.5 | 148 | <2.0 | - | <20 | 957 | 192 | 7.8 | 34.7 | - | <6.0 |
| | 10-20-99 ^e | <20 | 68.3 | <1.0 | 57.7 | 168 | 1.8 | - | <10 | 1,200 | 233 | 8.1 | 42.2 | - | <3.0 |
| | 11/9/2000 | <20 | 74.1 | <1.0 | 54.2 | 275 | 6.6 | - | <5.0 | 915 | 222 | 7.1 | 48.6 | - | <3.0 |
| | 11/6/2001 | <20 | 49.2 | <1.0 | 17.1 | 279 | 3.2 | - | <5.0 | 848 | 102 | 6.5 | 35.8 | - | <15 |
| | 10/22/2002 | <20 | 43.3 | <1.0 | 33 | 182 | 3.2 | - | <5.0 | 1,330 | 168 | 6.3 | 46.8 | <1.0 | <3.0 |
| | 10-22-02 ^e | <20 | 33 | <1.0 | 47.7 | 182 | 2.3 | - | <5.0 | 1,250 | 216 | 5.9 | 56.4 | <1.0 | <3.0 |
| | 11/19/2003 | <20.0 | 57.4 | <1.00 | 45.9 | 158 | 3.9 | 32.5 | <5.00 | 1,080 | 143 | 4.85 | 39.8 | <1.00 | <3.00 |
| | 11-19-03 ^e | <20.0 | 64.9 | <1.00 | 57.3 | 176 | 4.03 | 43.8 | <5.00 | 1,090 | 166 | 5.02 | 45.7 | <1.00 | <3.00 |
| | 11/10/2004 | <20.0 | 47.9 | <1.00 | 40.5 | 124 | 4.45 | 90.9 | <5.00 | 590 | 121 | 3.84 | 31.7 | <1.00 | <3.00 |
| | 11/16/2005 | <20.0 | 47.7 | <1.00 | 50.6 | 140 | 3.4 | <30 | <5.00 | 967 | 163 | 3.57 | 42.5 | <1.00 | <3.00 |
| | 11/17/2006 | <10.0 | 41.1 | <1.00 | 36.2 | 107 | 6.39 | 83 | <5.00 | 642 | 102 | 3.1 | 30.4 | 1.81 | <3.00 |
| | 10/10/2007 | <10.0 | 27.2 | <1.00 | 62.8 | 90.4 | 5.39 | 66 | <5.00 | 582 | 45.3 | 2.69 | 29.3 | 2.96 | <3.00 |
| | 10/30/2008 (PD) | <50.0 | 15.8 | <5.00 | 10.6 | 41.4 | <5.00 | - | <25 ^g | 88.8 | 25.9 | <5.00 | 8.7 | <5.00 ^g | <15.0 ^g |
| | 10/30/08 (RP) | - | - | - | - | - | - | 64 | - | - | - | - | - | - | - |
| | 10/30/08 (LF) | <50.0 | 27.6 | <5.00 | 25.3 | 71.6 | <5.00 | 54 | <25 ^g | 535 | 65.8 | <5.00 | 23.2 | <5.00 ^g | <15.0 ^g |
| | 10/15/2009 | <10.0 | 26.5 | <1.00 | 21 | 57.4 | 2.37 | 39 | <5.00 | 408 | 67 | 1.65 | 21.7 | <1.00 | <4.00 |

TABLE 5

GROUNDWATER ANALYTICAL RESULTS (µg/L)

| Monitoring Well | Date | Acetone | 1,1-DCA | 1,2-DCA | 1,1-DCE | cis-1,2-DCE | trans-1,2-DCE | 1,4-Dioxane | Methylene Chloride | PCE | 1,1,1-TCA | 1,1,2-TCA | TCE | Vinyl Chloride | Total Xylenes |
|-----------------|---------------------------|--------------------|--------------------|------------------|---------|-------------|---------------|-------------|--------------------|------------------|-----------|-----------|-------------------|----------------|---------------|
| | | MCL ^a | 5,500 ^b | 810 ^b | 5 | 7 | 70 | 100 | 6.1 ^b | 5 | 200 | 5 | 5 | 2 | 10 |
| MW-29 | 10/22/2002 | <20 | <1.0 | <1.0 | <2.0 | 3.5 | <1.0 | - | <5.0 | 6.1 | 1.1 | <1.0 | 4.3 | <1.0 | <3.0 |
| MW-R30 | 10/22/2002 | <20 | <1.0 | <1.0 | <2.0 | 2.8 | <1.0 | - | <5.0 | 1.4 | <1.0 | <1.0 | <1.0 | <1.0 | <3.0 |
| | 11/17/2003 | <20.0 | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 | <2.0 | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <3.00 |
| | 11/9/2004 | <20.0 | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 | <2.0 | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <3.00 |
| | 11/15/2005 | <20.0 | <1.00 | <1.00 | <2.00 | 1.47 | <1.00 | - | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <3.00 |
| | 11/14/2006 | <10.0 | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 | - | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <3.00 |
| | 10/9/2007 | <10.0 | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 | - | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <3.00 |
| | 10/29/2008 (PD) | <10.0 ^f | <1.00 | <1.00 | <2.00 | 2.06 | <1.00 | - | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <3.00 |
| | 10/29/2008 (LF) | <10.0 ^f | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 | - | <5.00 | 10.2 | <1.00 | <1.00 | <1.00 | <1.00 | <3.00 |
| MW-31 | 10/15/2009 | <10.0 | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 | - | <5.00 | 63.6 | 3.07 | <1.00 | 37.6 ^f | <1.00 | <4.00 |
| | Sep-Oct 1994 ^c | <25 | <5.0 | <5.0 | <5.0 | 8.3 | <5.0 | - | <5.0 | 36 | 25 | <5.0 | 19 | - | <5.0 |
| | 11/21/1997 | <20 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | - | <10 | <1.0 | <1.0 | <1.0 | <1.0 | - | <3.0 |
| | 10/20/1998 | <20 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | - | <10 | <1.0 | <1.0 | <1.0 | <1.0 | - | <3.0 |
| | 10/20/1999 | <20 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | - | <10 | <1.0 | <1.0 | <1.0 | <1.0 | - | <3.0 |
| | 11/9/2000 | <20 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | - | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | - | <3.0 |
| | 11/6/2001 | <20 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | - | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | - | <3.0 |
| | 10/22/2002 | <20 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | - | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | - | <3.0 |
| | 11/17/2003 | <20.0 | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 | <2.0 | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <3.00 |
| | 11/8/2004 | <20.0 | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 | <2.0 | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <3.00 |
| | 11/16/2005 | <20.0 | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 | - | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <3.00 |
| | 11/13/2006 | <10.0 | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 | - | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <3.00 |
| | 10/8/2007 | <10.0 | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 | - | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <3.00 |
| | 10/27/2008 (PD) | <10.0 | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 | - | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <3.00 |
| | 10/27/2008 (LF) | <10.0 | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 | - | <5.00 | 11.3 | <1.00 | <1.00 | <1.00 | <1.00 | <3.00 |
| | 10/15/2009 | <10.0 | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 | - | <5.00 | 5.72 | <1.00 | <1.00 | <1.00 | <1.00 | <4.00 |
| MW-32 | Sep-Oct 1994 ^c | <25 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | - | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | - | <5.0 |
| | 11/21/1997 | <20 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | - | <10 | 220 | <1.0 | <1.0 | <1.0 | - | <3.0 |
| | 10/20/1999 | <20 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | - | <10 | <1.0 | <1.0 | <1.0 | <1.0 | - | <3.0 |
| | 11/6/2001 | <20 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | - | <5.0 | 1.9 ^m | <1.0 | <1.0 | <1.0 | - | <3.0 |
| | 10/22/2002 | <20 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | - | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <3.0 |
| | 11/8/2004 | <20.0 | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 | <2.0 | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <3.00 |
| | 11/14/2006 | <10.0 | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 | - | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <3.00 |
| | 10/28/2008 (LF) | <10.0 | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 | - | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <3.00 |

TABLE 5

GROUNDWATER ANALYTICAL RESULTS (µg/L)

| Monitoring Well | Date | Acetone | 1,1-DCA | 1,2-DCA | 1,1-DCE | cis-1,2-DCE | trans-1,2-DCE | 1,4-Dioxane | Methylene Chloride | PCE | 1,1,1-TCA | 1,1,2-TCA | TCE | Vinyl Chloride | Total Xylenes |
|-----------------|-------------------------|--------------------|------------------|---------|---------|-------------|--------------------|------------------|--------------------|------------------|-----------|-----------|-------|----------------|---------------|
| | | 5,500 ^b | 810 ^b | 5 | 7 | 70 | 100 | 6.1 ^b | 5 | 5 | 200 | 5 | 5 | 2 | 10 |
| MW-33 | 11/15/2005 | <20.0 | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 | <6 | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <3.00 |
| | 11/13/2006 | <10.0 | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 | <5.19 | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <3.00 |
| | 10/8/2007 | <10.0 | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 | <2.0 | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <3.00 |
| | 10/28/2008 (PD) | <10.0 | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 | - | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <3.00 |
| | 10/28/2008 (RP) | - | - | - | - | - | - | <2.0 | - | - | - | - | - | - | - |
| | 10/28/2008 (LF) | <10.0 | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 | <2.0 | <5.00 | 19.9 | <1.00 | <1.00 | <1.00 | <1.00 | <3.00 |
| | 10/15/2009 | <10.0 | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 | <2.0 | <5.00 | 3.18 | <1.00 | <1.00 | <1.00 | <1.00 | <4.00 |
| Trip Blank | 11/21/1997 | <20 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | - | <10 | 1.2 ^b | <1.0 | <1.0 | <1.0 | - | <3.0 |
| | 10/20/1998 | <20 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | - | <10 | <1.0 | <1.0 | <1.0 | <1.0 | - | <3.0 |
| | 11/6/2001 | <20 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | - | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | - | <3.0 |
| | 10/22/2002 | <20 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | - | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | - | <3.0 |
| | 11/8/2004 | <20.0 | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 | - | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <3.00 |
| | 11/10/2004 | <20.0 | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 | - | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <3.00 |
| | 11/15/2005 | <20.0 | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 | <6 | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <3.00 |
| | 11/16/2005 | <20.0 | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 | <6 | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <3.00 |
| | 11/13/2006 | <10.0 | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 | <5.19 | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <3.00 |
| | 11/13/2006 | <10.0 | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 | <2.0 | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <3.00 |
| | 11/13/2006 | <10.0 | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 | <2.0 | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <3.00 |
| | 10/8/2007 | <10.0 | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 | - | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <3.00 |
| | 10/10/2008 ^p | <10.0 | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 | <2.0 | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <3.00 |
| | 10/27/2008 | <10.0 | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 ^q | <2.0 | 10.7 ^s | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <3.00 |
| | 10/29/2008 | <10.0 ^t | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 | <2.0 | 9.81 ^s | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <3.00 |

TABLE 5

GROUNDWATER ANALYTICAL RESULTS ($\mu\text{g/L}$)

| Monitoring Well | Date | Acetone | 1,1-DCA | 1,2-DCA | 1,1-DCE | cis-1,2-DCE | trans-1,2-DCE | 1,4-Dioxane | Methylene Chloride | PCE | 1,1,1-TCA | 1,1,2-TCA | TCE | Vinyl Chloride | Total Xylenes | |
|-----------------|------------------------------|------------------|--------------------|------------------|---------|-------------|---------------|-------------|--------------------|-------|-----------|-----------|-------|----------------|---------------|----|
| | | MCL ^a | 5,500 ^b | 810 ^b | 5 | 7 | 70 | 100 | 6.1 ^b | 5 | 5 | 200 | 5 | 5 | 2 | 10 |
| Equipment | 11/18/2003 | <20.0 | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 | <2.0 | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <3.00 | |
| Blank | 11/8/2004 | <20.0 | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 | <2.0 | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <3.00 | |
| | 11/9/2004 | <20.0 | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 | <2.0 | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <3.00 | |
| | 11/10/2004 | <20.0 | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 | <2.0 | 12.9 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <3.00 | |
| | 11/15/2005 | <20.0 | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 | <2.0 | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <3.00 | |
| | 11/16/2005 | <20.0 | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 | <2.0 | <6 | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <3.00 | |
| | 11/13/2006 | <10.0 | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 | <2.0 | <5.19 | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <3.00 | |
| | 11/14/2006 | <10.0 | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 | <2.0 | <5.19 | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <3.00 | |
| | 11/15/2006 | <10.0 | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 | <2.0 | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <3.00 | |
| | 11/17/2006 | <10.0 | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 | <2.0 | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <3.00 | |
| | 10/8/2007 | <10.0 | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 | <2.0 | <5.00 | 1.05 | <1.00 | <1.00 | <1.00 | <1.00 | <3.00 | |
| | 10/9/2007 | <10.0 | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 | <2.0 | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <3.00 | |
| | 10/10/2008 ^p (PD) | <10.0 | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 | <2.0 | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <3.00 | |
| | 10/10/2008 ^p (RP) | - | - | - | - | - | - | <2.0 | - | - | - | - | - | - | - | |
| | 10/27/2008 (LF) | <10.0 | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 | <2.0 | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <3.00 | |
| | 10/28/2008 (LF) | <10.0 | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 | <2.0 | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <3.00 | |
| | 10/29/2008 (LF) | <10.0 | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 | <2.0 | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <3.00 | |
| | 10/30/2008 (LF) | <10.0 | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 | <2.0 | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <3.00 | |
| | 10/31/2008 (LF) | <10.0 | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 | <2.0 | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <3.00 | |
| | 10/15/2009 | <10.0 | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 | <2.0 | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <4.00 | |
| | 10/15/2009 | <10.0 | <1.00 | <1.00 | <2.00 | <1.00 | <1.00 | <2.0 | <5.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <4.00 | |

Notes:

- ^a Bold data values are above MCL.
- ^b Region 9 Preliminary Remediation Goal.
- ^c Harding Lawson Associates.
- ^d Estimated result.
- ^e Duplicate.
- ^f Analyte detected in associated method blank. Sample rerun, but past holding time.
- ^g Detection limited by laboratory dilution ratio.
- ^h Only one duplicate required for 1,4-dioxane samples.
- ⁱ Reporting limit elevated due to matrix interferences.
- ^j Estimated quantitation limit.
- ^k Holding time exceedance.
- ^l Analysis not required per November 2, 2005, e-mail correspondence from Spencer Dulaney of United States Environmental Protection Agency (USEPA) to James Aycock of USEPA.
- ^m Possible carryover from previous sample at laboratory.
- ⁿ Suspected to be carryover from sample analyzed immediately prior.
- ^o Not analyzed.
- ^p Collected during initial installation of PD and RP samplers
- ^q Calibration verification recovery outside the method control limits.
- ^r Laboratory control sample was outside acceptance criteria.
- ^s Common lab contaminant.
- ^t MS/MSD were outside control limits.
- ^u Not enough water volume in well to sample.

- $\mu\text{g/L}$ = Micrograms per liter.
 1,1-DCA = 1,1-Dichloroethane.
 1,2-DCA = 1,2-Dichloroethane.
 1,1-DCE = 1,1-Dichloroethene.
 cis-1,2-DCE = cis-1,2-Dichloroethene.
 trans-1,2-DCE = trans-1,2-Dichloroethene.
 PCE = Tetrachloroethene.
 1,1,1-TCA = 1,1,1-Trichloroethane.
 1,1,2-TCA = 1,1,2-Trichloroethane.
 TCE = Trichloroethene.
 MCL = Maximum contaminant level.
 LF = Low-flow sampling method
 PD = Polyethylene diffusion bag sampler
 RP = Rigid porous polyethylene sampler

TABLE 6
RELATIVE PRECENT DIFFERENCES
CONSTITUENT CONCENTRATIONS IN MW-19 AND RESPECTIVE DUPLICATE

| Analyte | MW-19 (LF) ($\mu\text{g/L}$) | Duplicate ($\mu\text{g/L}$) | RPD (%) |
|--------------------------|-----------------------------------|----------------------------------|---------|
| Acetone | <10.0 | <10.0 | N/A |
| 1,1-Dichloroethane | 1.6 | 1.56 | 3 |
| 1,2-Dichloroethane | <1.00 | <1.00 | N/A |
| 1,1-Dichloroethene* | 2 | 2.2 | -10 |
| cis-1,2-Dichloroethene | 3.41 | 3.72 | -9 |
| trans-1,2-Dichloroethene | <1.00 | <1.00 | N/A |
| 1,4-Dioxane | 3.5 | 3.1 | 12 |
| Methylene Chloride | <5.00 | <5.00 | N/A |
| Tetrachloroethene | 38 | 38.2 | -1 |
| 1,1,1-Trichloroethane | 6.83 | 6.71 | 2 |
| 1,1,2-Trichloroethane | <1.00 | <1.00 | N/A |
| Trichloroethene | 3.64 | 4.06 | -11 |
| Vinyl Chloride | <1.00 | <1.00 | N/A |
| Total Xylenes | <4.00 | <4.00 | N/A |

Notes:

- RPD = Actual value for MW-19 is <2.00
- ($\mu\text{g/L}$) = Relative percent difference.
- NA = Micrograms per liter.
- % = Not applicable.
- LF = Percent.
- LF = Low flow sampling method

FIGURES

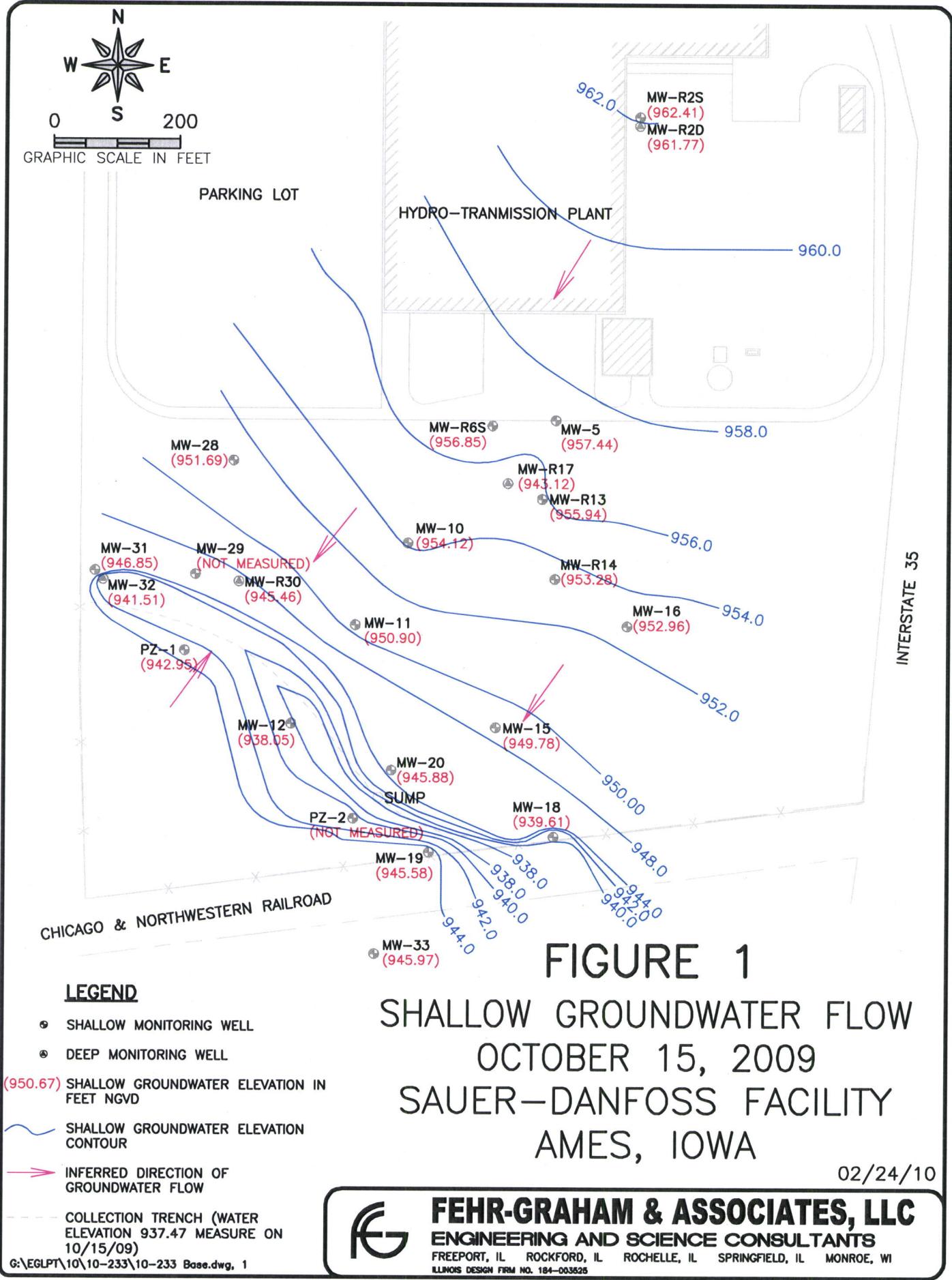


FIGURE 1
SHALLOW GROUNDWATER FLOW
OCTOBER 15, 2009
SAUER-DANFOSS FACILITY
AMES, IOWA

02/24/10

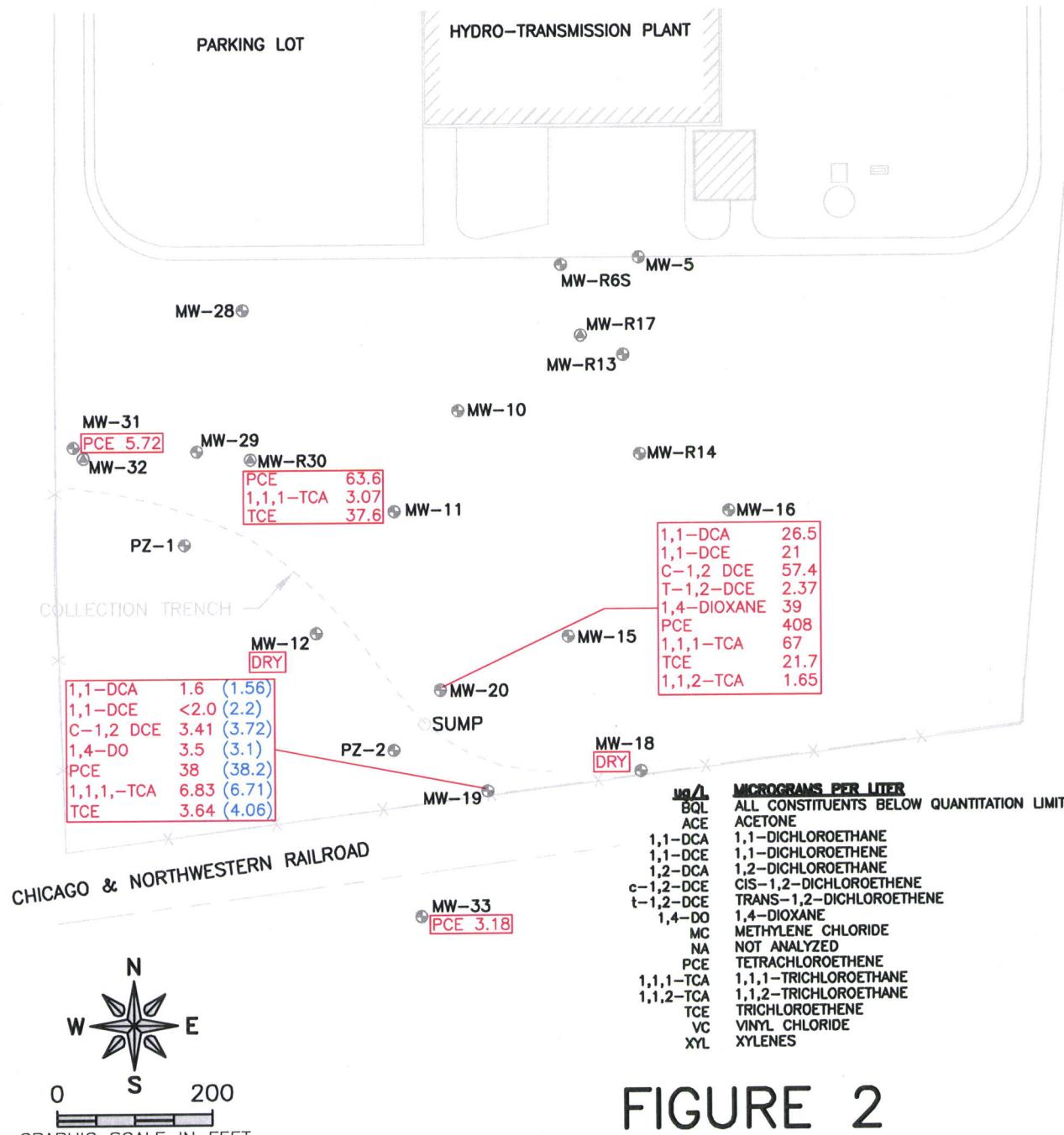
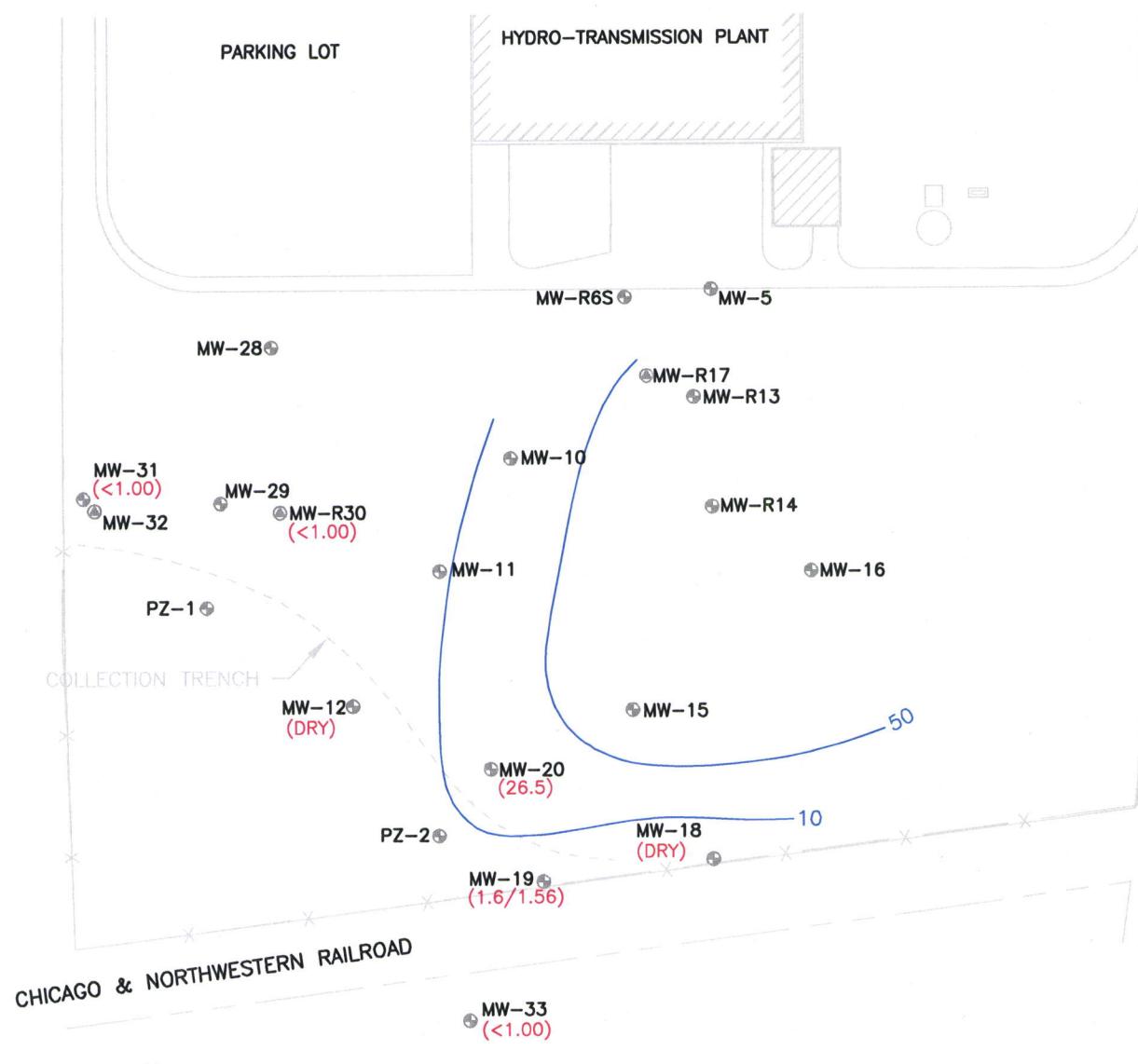


FIGURE 2
GROUNDWATER ANALYTICAL RESULTS
ABOVE QUANTITATION LIMIT
OCTOBER 15, 2009
SAUER-DANFOSS FACILITY
AMES, IOWA

02/24/10

INTERSTATE 35



LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- (27.2) 1,1-DICHLOROETHANE CONCENTRATION
DETECTED IN GROUNDWATER, SHOWN IN
ug/L
-  ISO-CONCENTRATION CONTOUR

FIGURE 3
SHALLOW GROUNDWATER
1,1-DICHLOROETHANE CONCENTRATIONS
OCTOBER 15, 2009
SAUER-DANFOSS FACILITY
AMES, IOWA

02/24/10



INTERSTATE 35

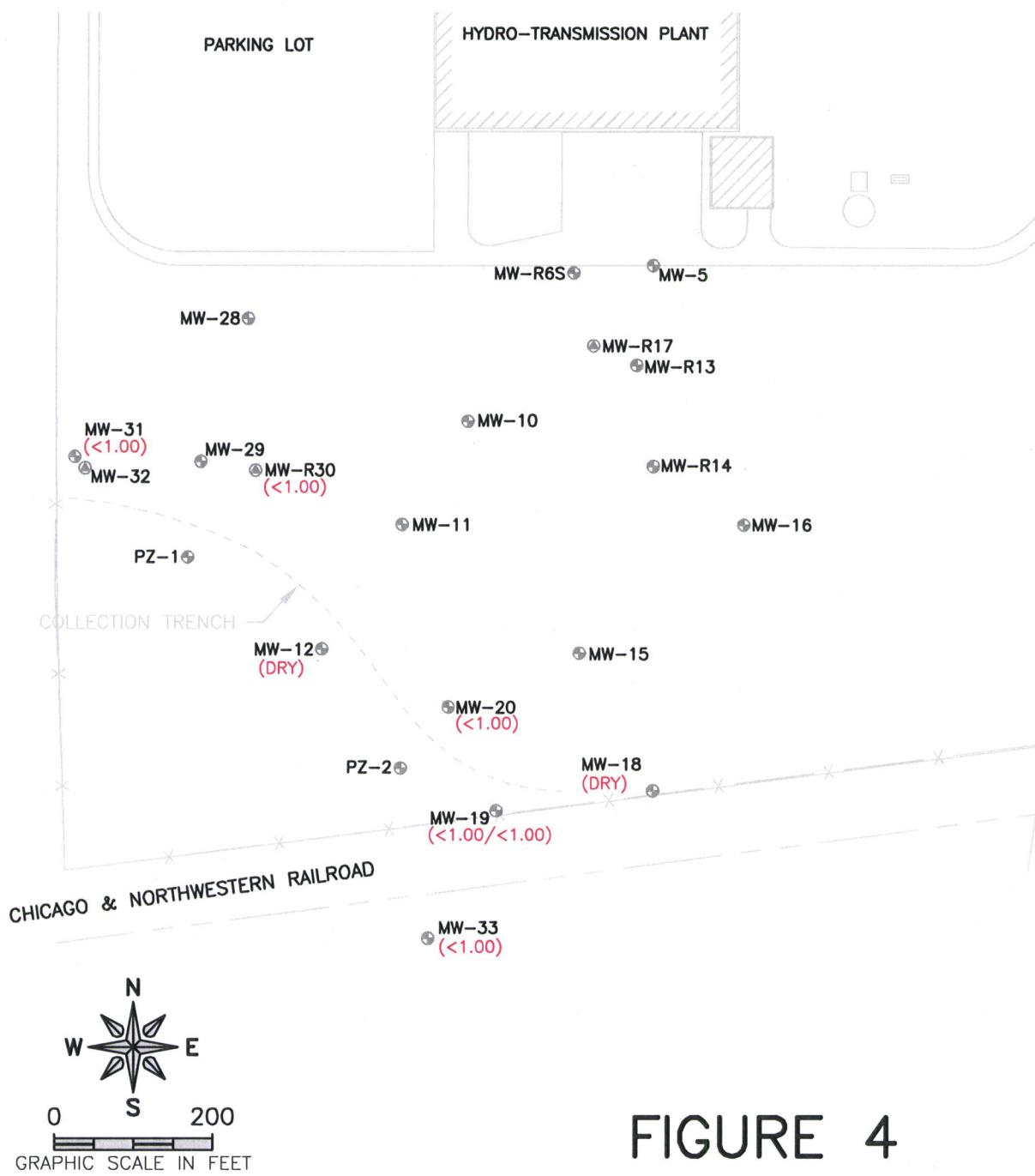


FIGURE 4
SHALLOW GROUNDWATER
1,2-DICHLOROETHANE CONCENTRATIONS
OCTOBER 15, 2009
SAUER-DANFOSS FACILITY
AMES, IOWA

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INTERSTATE 35

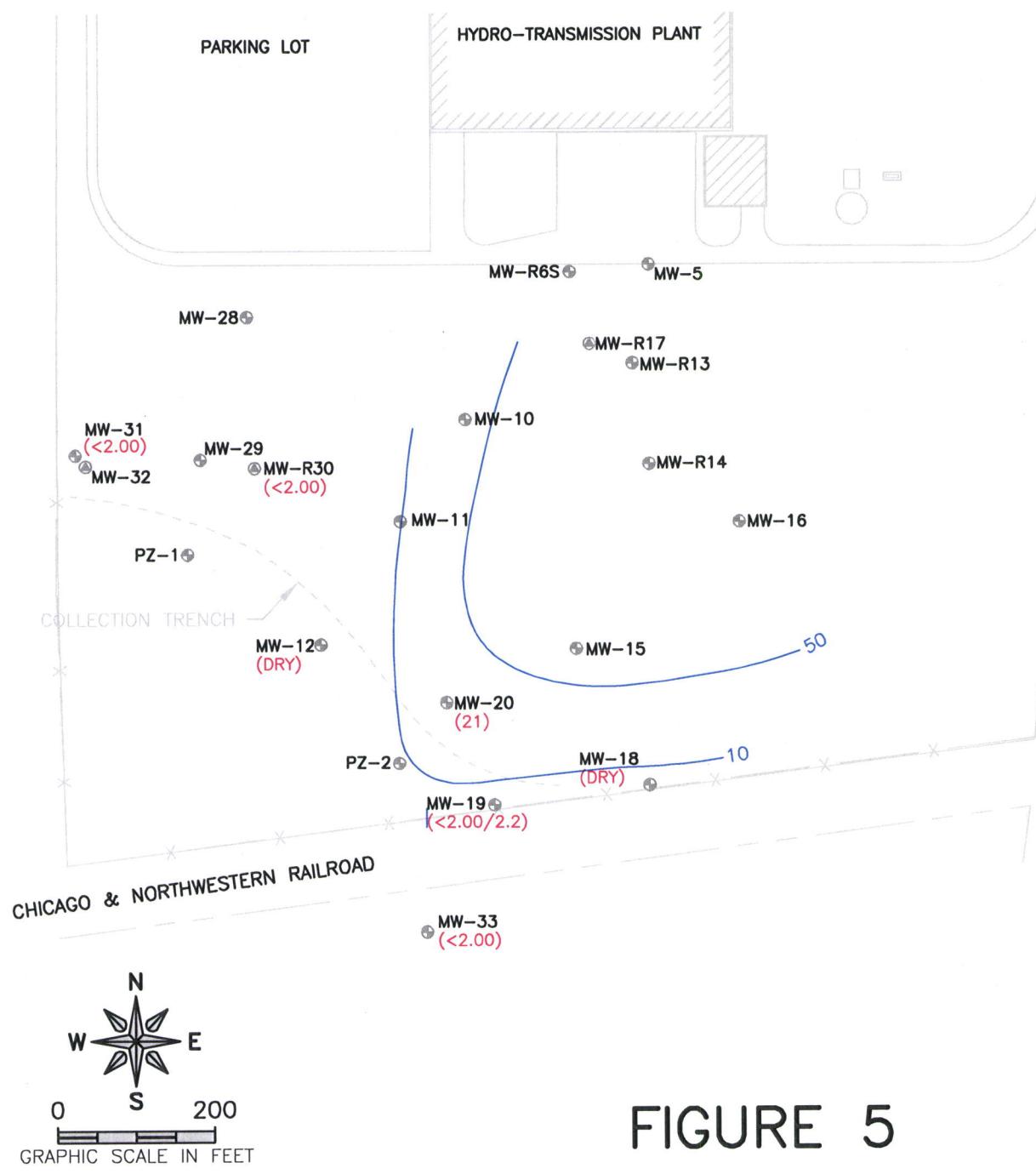


FIGURE 5
SHALLOW GROUNDWATER
1,1-DICHLOROETHENE CONCENTRATIONS
OCTOBER 15, 2009
SAUER-DANFOSS FACILITY
AMES, IOWA

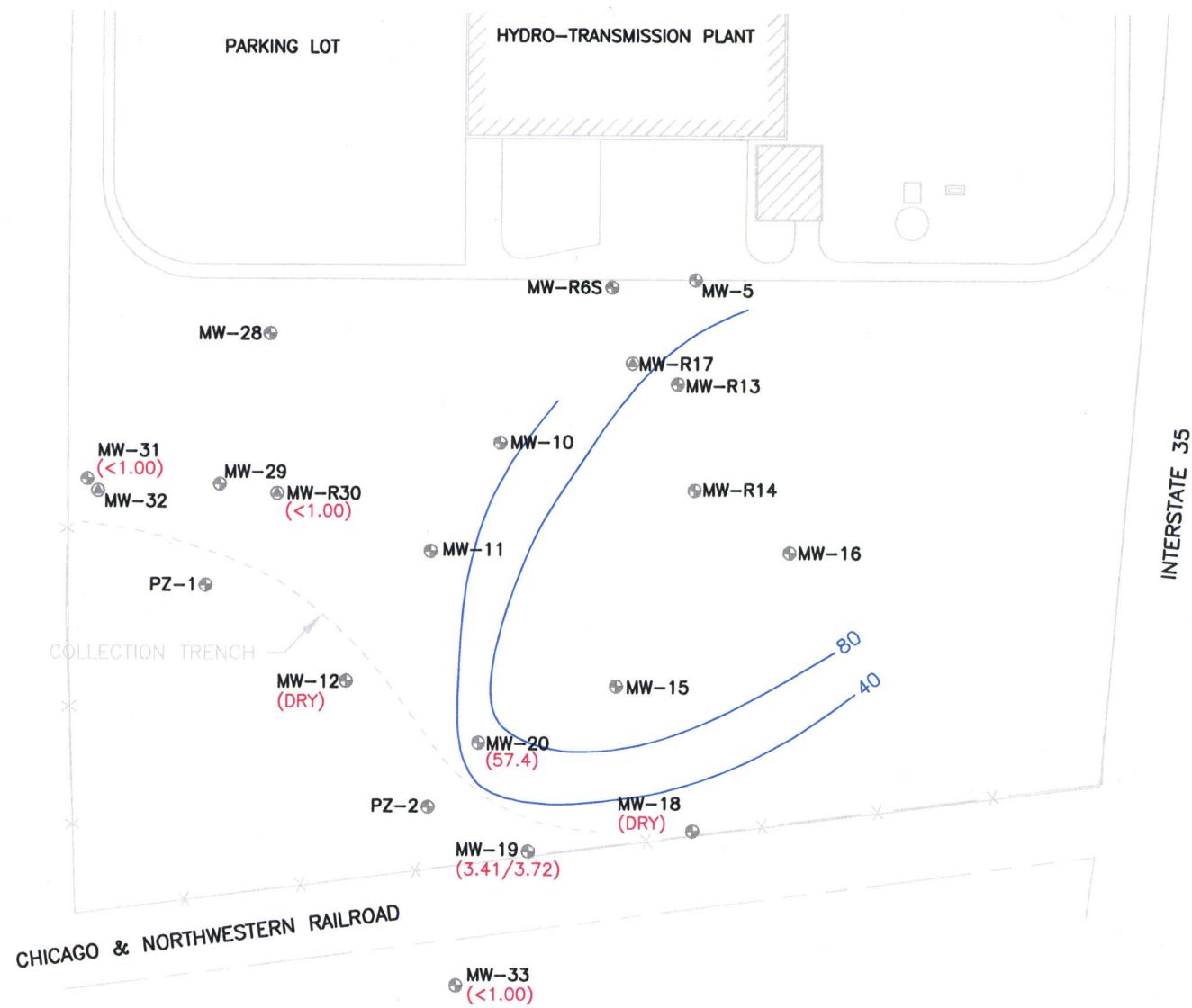
02/24/10

G:\EGLPT\10\10-233\10-233 Base.dwg, 5



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LEGEND

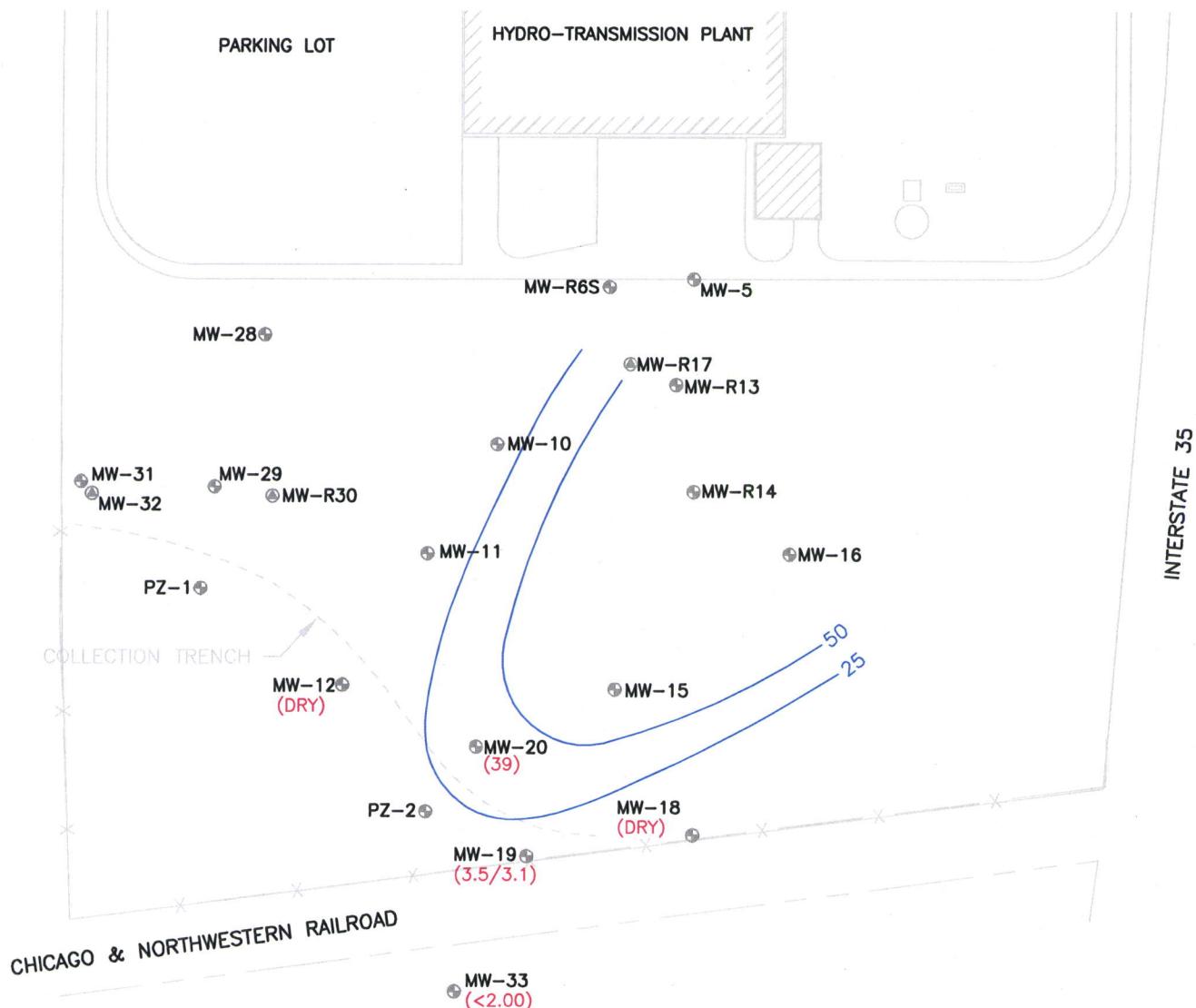
- SHALLOW MONITORING WELL
- ◎ DEEP MONITORING WELL
- (27.2) CIS-1,2-DICHLOROETHENE CONCENTRATION DETECTED IN GROUNDWATER, SHOWN IN ug/L
- ~~~~(20) ISO-CONCENTRATION CONTOUR



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FIGURE 6
SHALLOW GROUNDWATER
CIS-1,2-DICHLOROETHENE CONCENTRATIONS
OCTOBER 15, 2009
SAUER-DANFOSS FACILITY
AMES, IOWA



LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- (27.2) 1,4-DIOXANE CONCENTRATION DETECTED IN GROUNDWATER, SHOWN IN ug/L

ISO-CONCENTRATION CONTOUR

FIGURE 7
SHALLOW GROUNDWATER
1,4-DIOXANE CONCENTRATIONS
OCTOBER 15, 2009
SAUER-DANFOSS FACILITY
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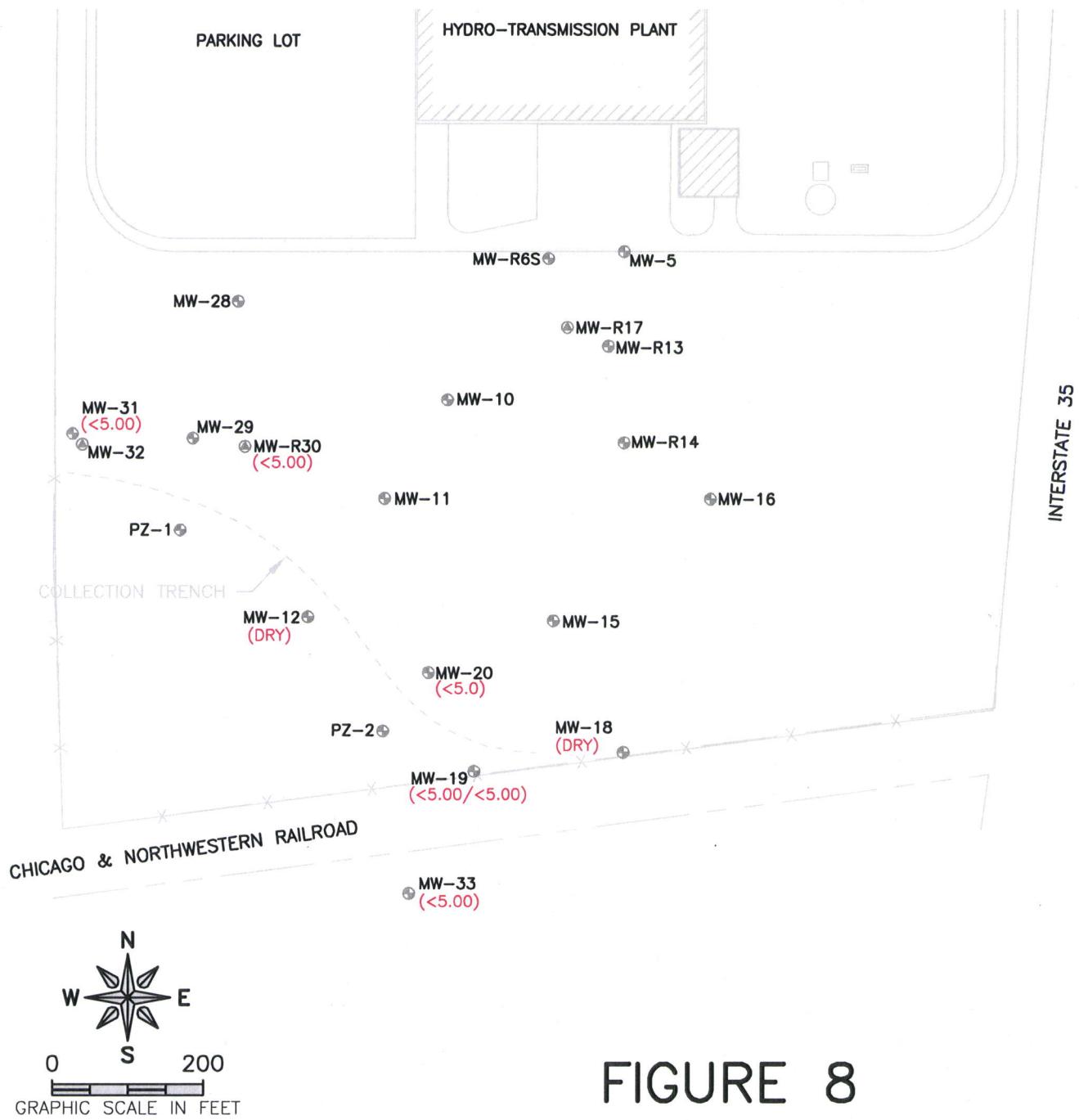
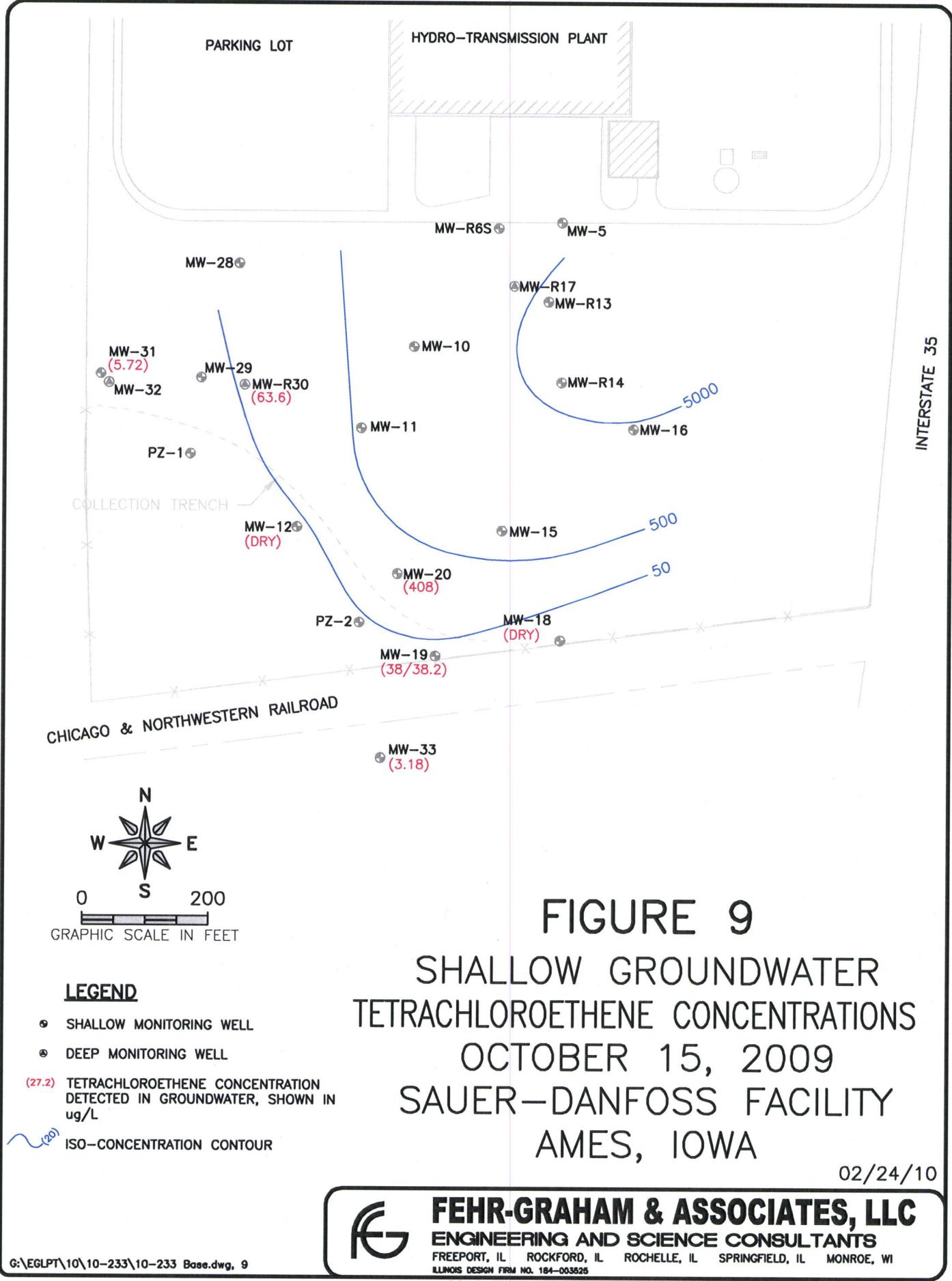


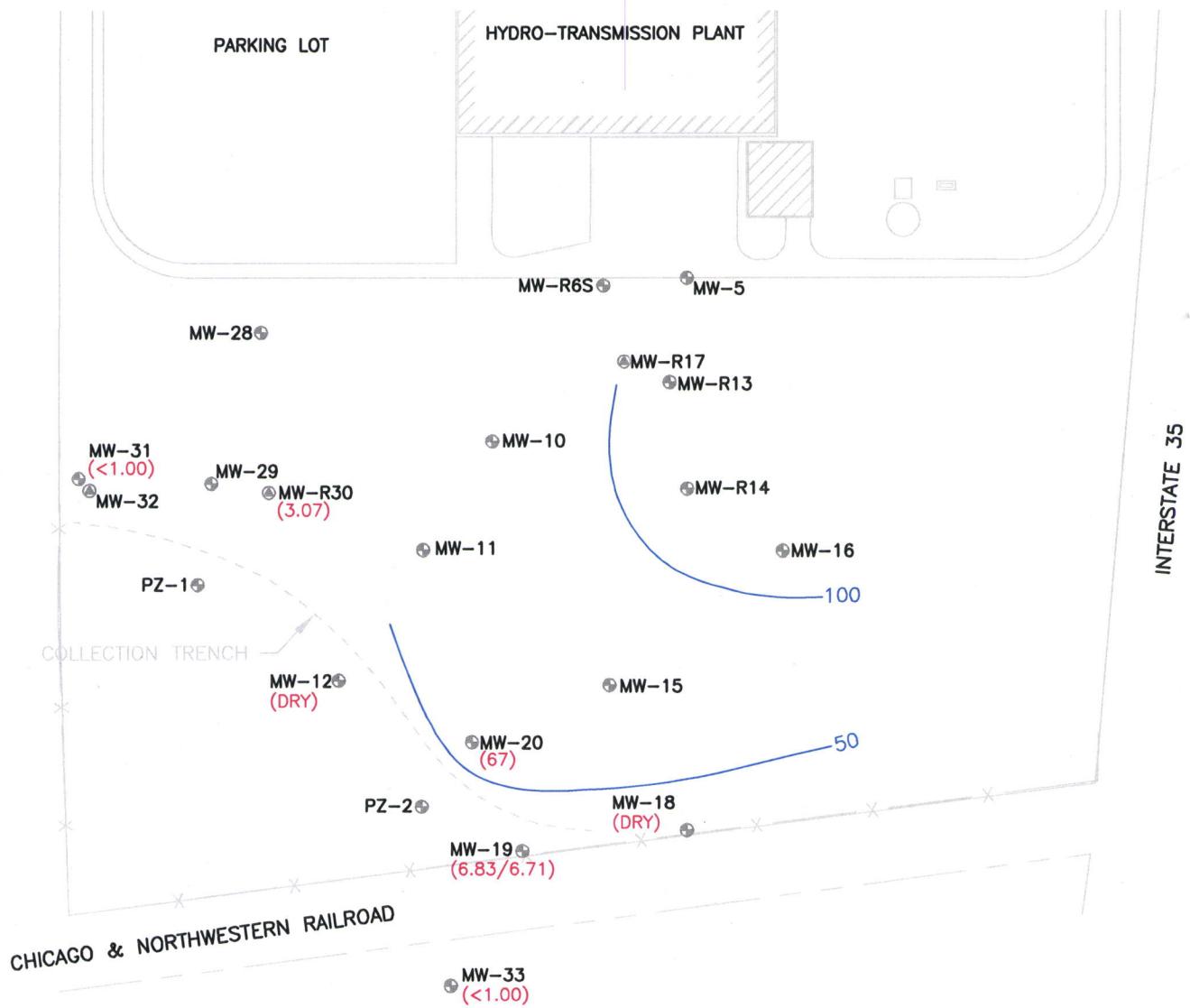
FIGURE 8
SHALLOW GROUNDWATER
METHYLENE CHLORIDE CONCENTRATIONS
OCTOBER 15, 2009
SAUER-DANFOSS FACILITY
AMES, IOWA

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LEGEND

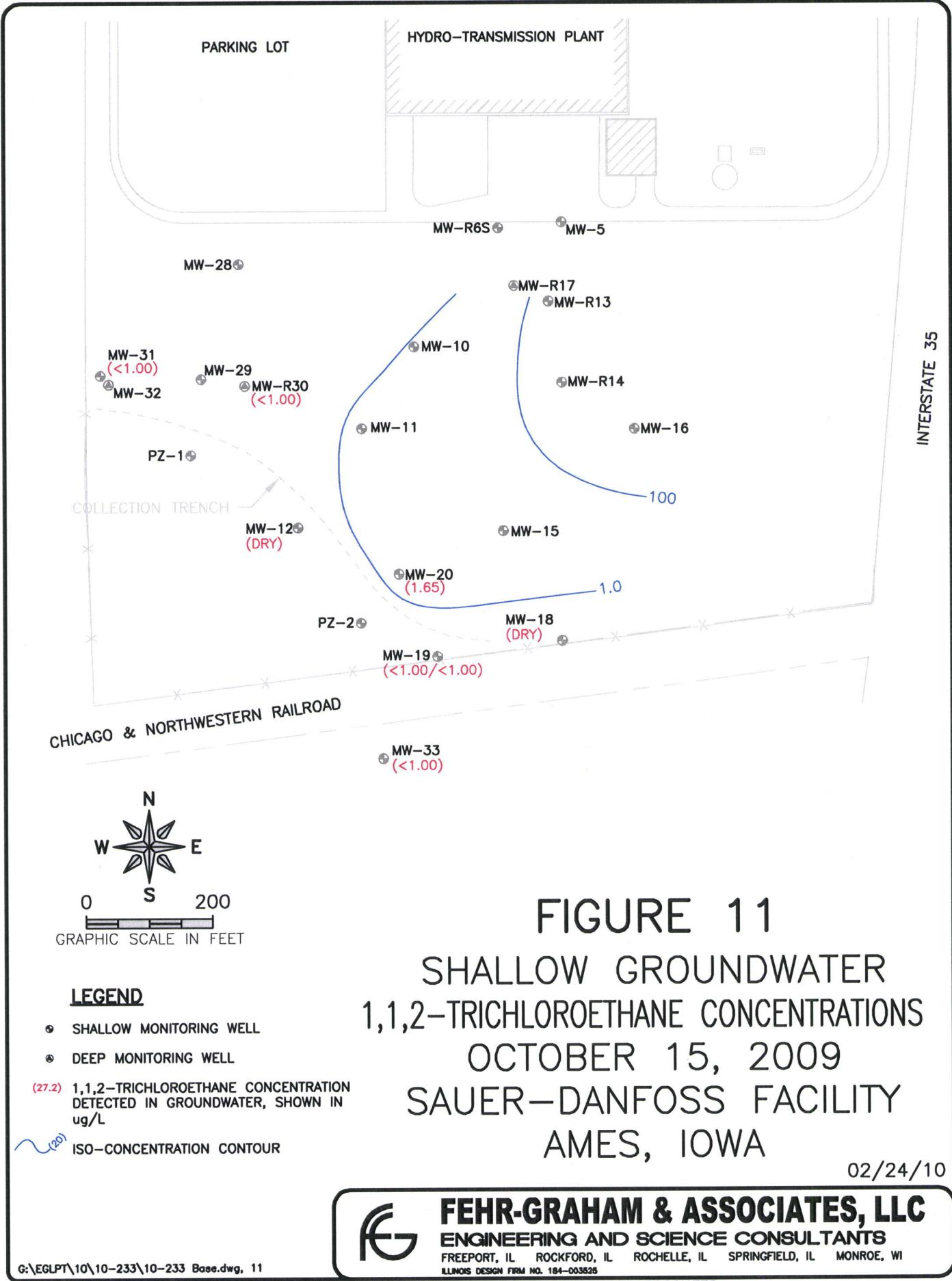
- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- (27.2) 1,1,1-TRICHLOROETHANE CONCENTRATION DETECTED IN GROUNDWATER, SHOWN IN ug/L
- ~ ISO-CONCENTRATION CONTOUR

FIGURE 10
SHALLOW GROUNDWATER
1,1,1-TRICHLOROETHANE CONCENTRATIONS
OCTOBER 15, 2009
SAUER-DANFOSS FACILITY
AMES, IOWA

02/24/10

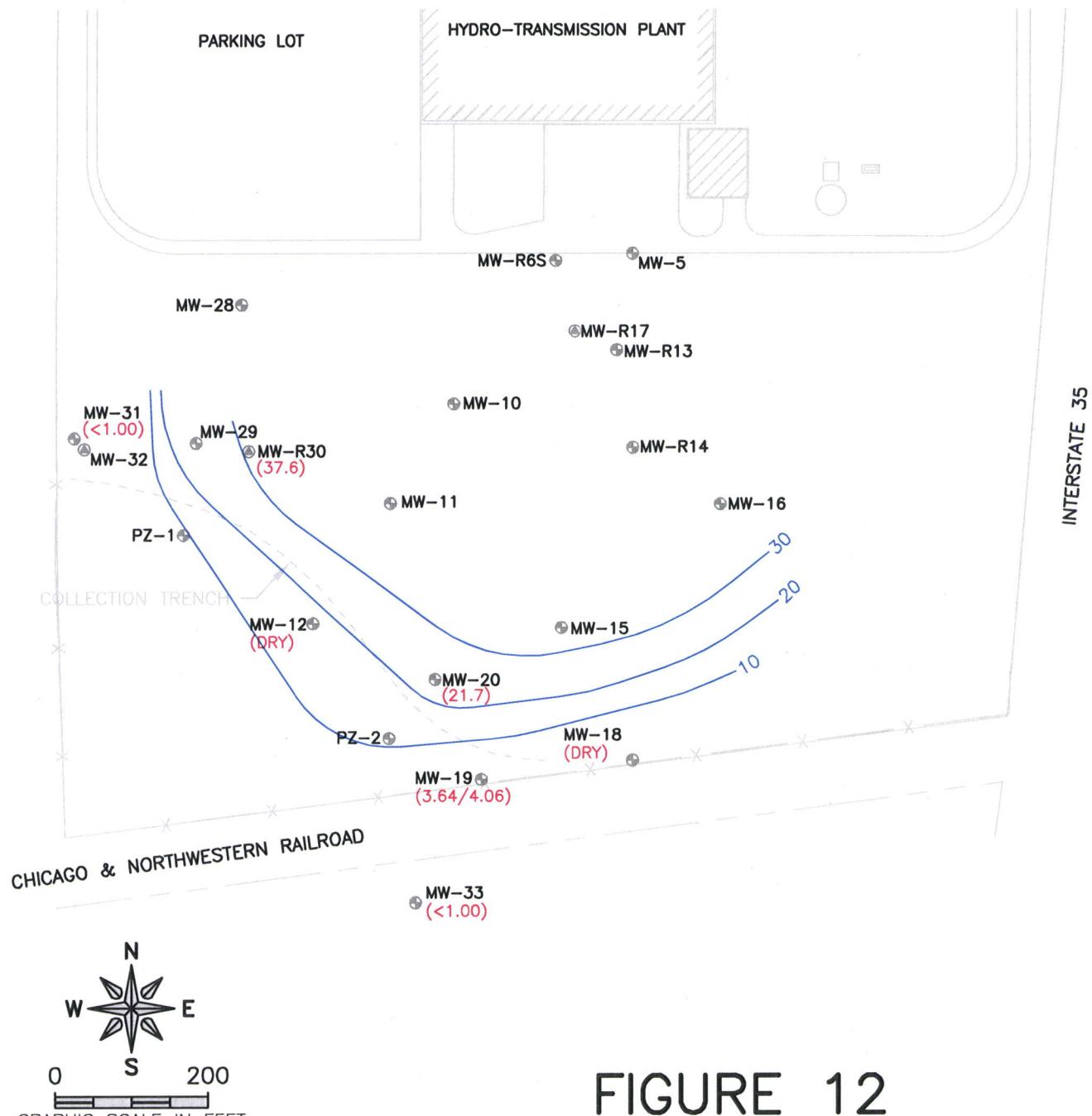


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LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- (27.2) TRICHLOROETHENE CONCENTRATION DETECTED IN GROUNDWATER, SHOWN IN ug/L
- ISO-CONCENTRATION CONTOUR

FIGURE 12
SHALLOW GROUNDWATER
TRICHLOROETHENE CONCENTRATIONS
OCTOBER 15, 2009
SAUER-DANFOSS FACILITY
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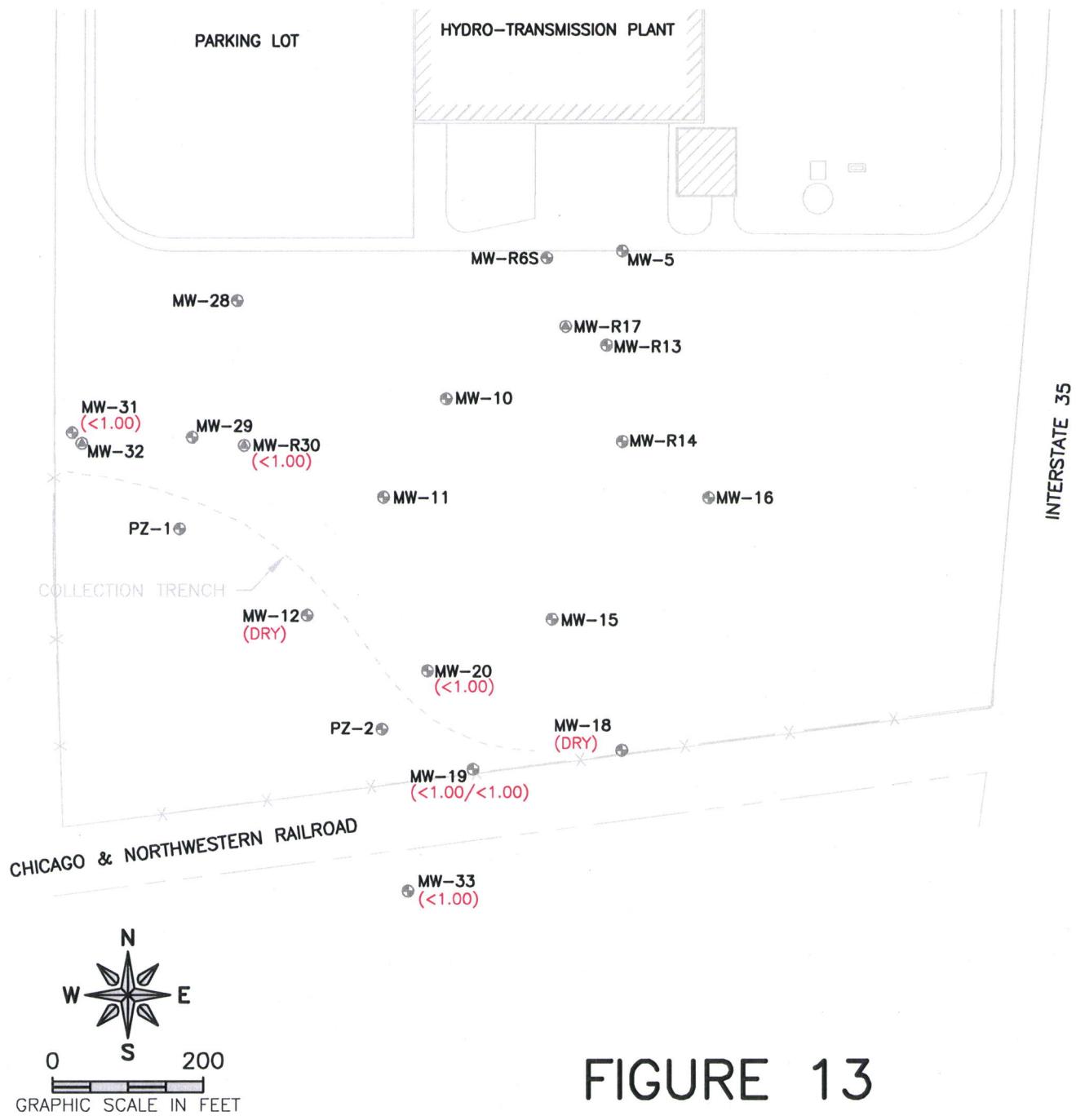
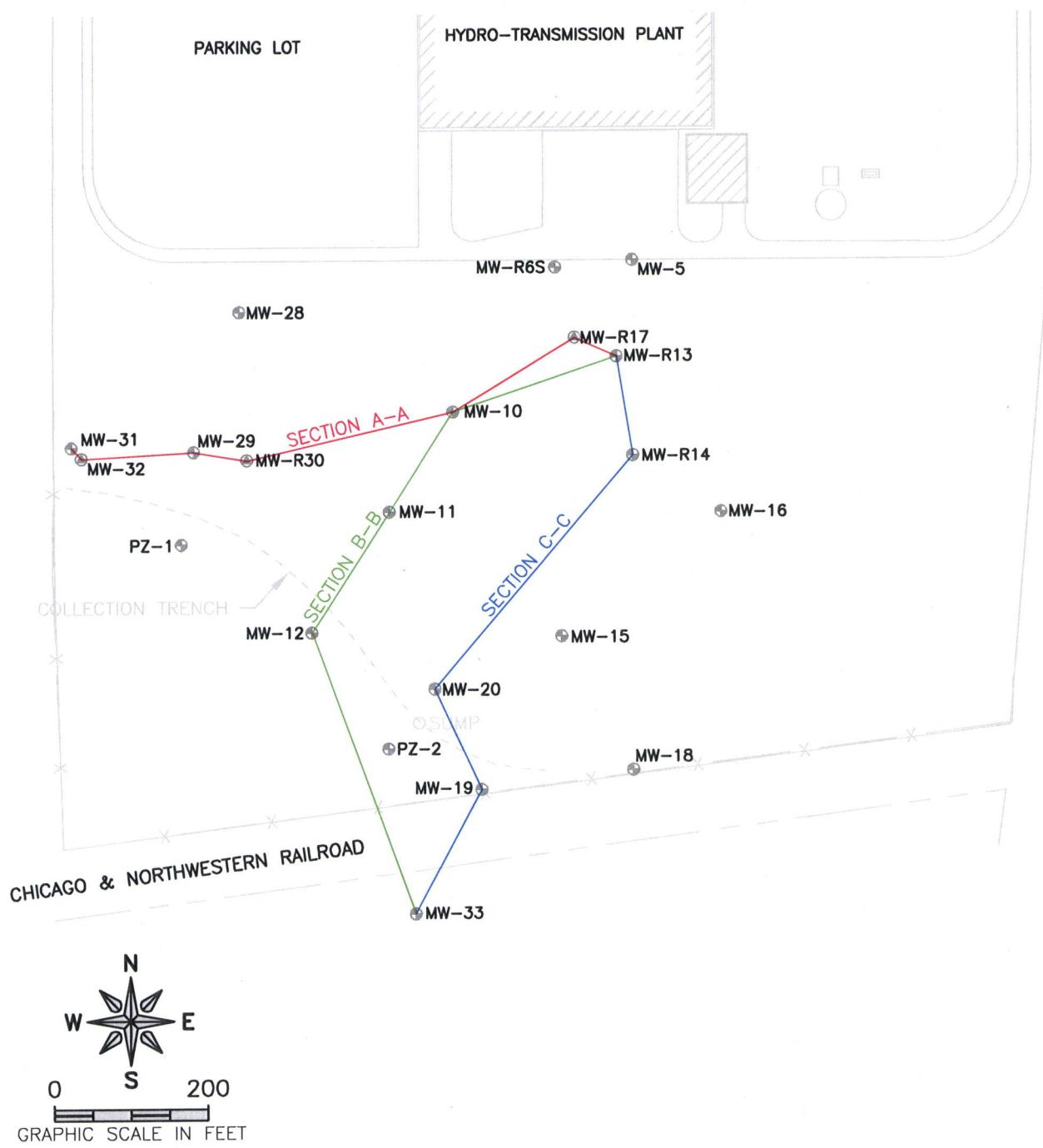


FIGURE 13
SHALLOW GROUNDWATER
VINYL CHLORIDE CONCENTRATIONS
OCTOBER 15, 2009
SAUER-DANFOSS FACILITY
AMES, IOWA

02/24/10



INTERSTATE 35



- LEGEND**
- SHALLOW MONITORING WELL
 - ◎ DEEP MONITORING WELL

FIGURE 14
CROSS SECTION MAP
SAUER-DANFOSS FACILITY
AMES, IOWA

02/24/10

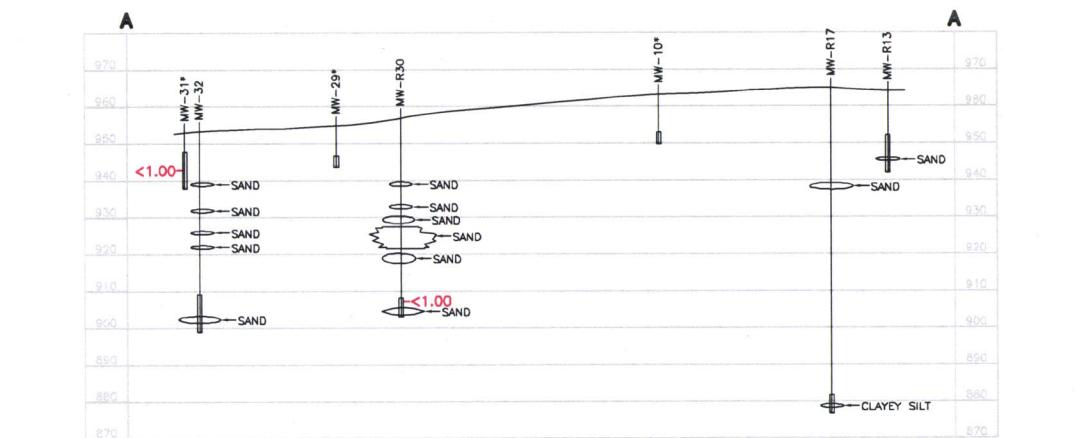


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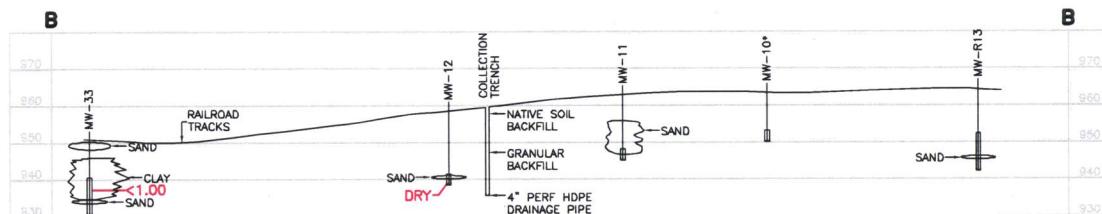
FREEPORT, IL ROCKFORD, IL ROCHELLE, IL SPRINGFIELD, IL MONROE, WI

ILLINOIS DESIGN FIRM NO. 184-003626

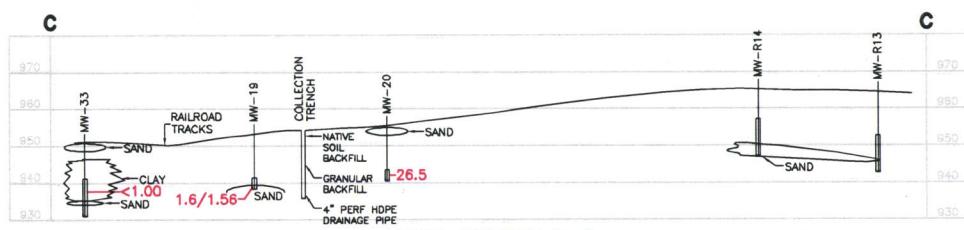
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CROSS SECTION A-A



CROSS SECTION B-B



CROSS SECTION C-C

LEGEND

* GEOLOGIC PROFILE UNKNOWN

<1.00 CONCENTRATION IN ug/L

G:\EGLPT\10\10-233\10-233 Base.dwg, 15

LEGEND

SCALE: HORZ. 1" = 200'
VERT. 1" = 50'



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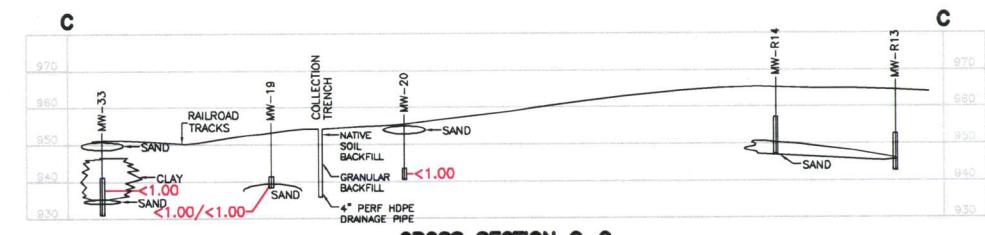
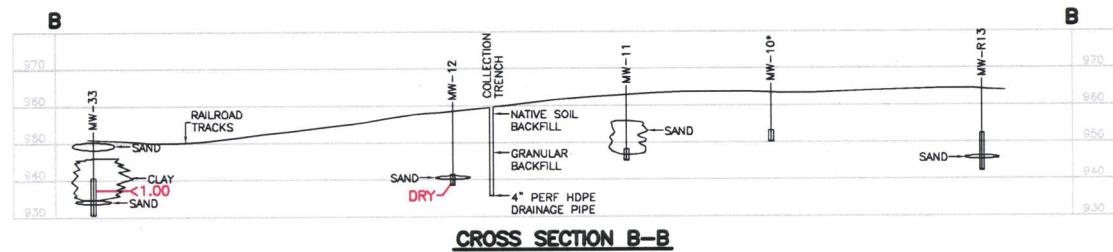
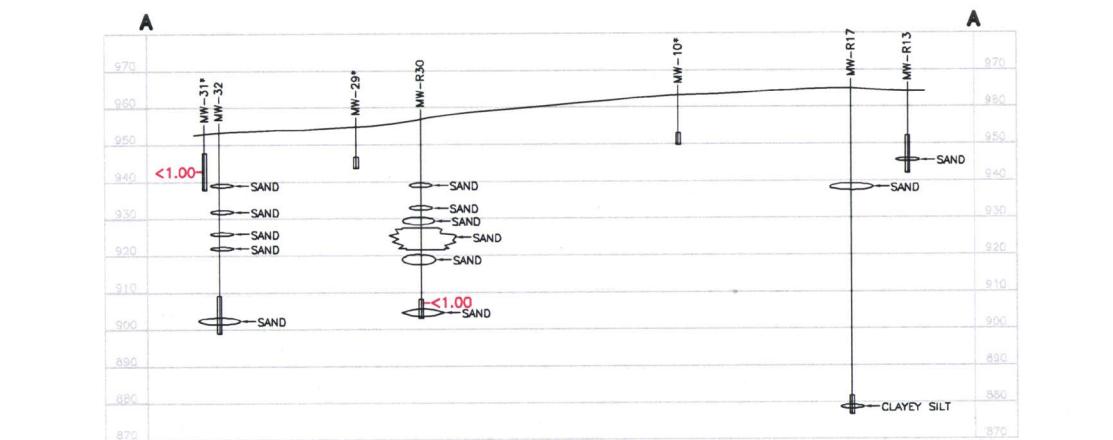
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FIGURE 15
HYDROGEOLOGIC PROFILE
1,1-DICHLOROETHANE CONCENTRATIONS
OCTOBER 15, 2009
SAUER-DANFOSS FACILITY
AMES, IOWA



LEGEND

* GEOLOGIC PROFILE UNKNOWN

<1.00 CONCENTRATION IN ug/L

G:\EGLPT\10\10-233\10-233 Base.dwg, 16

LEGEND

SCALE: HORZ. 1" = 200'
VERT. 1" = 50'



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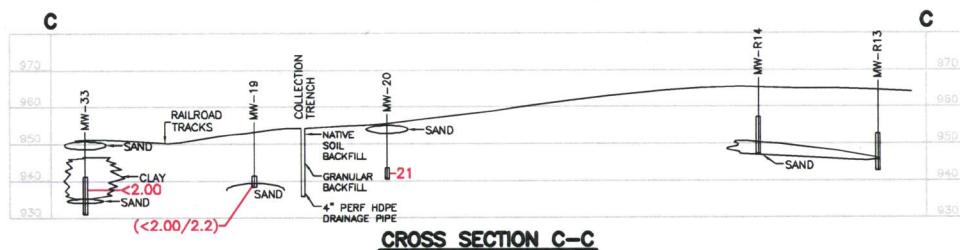
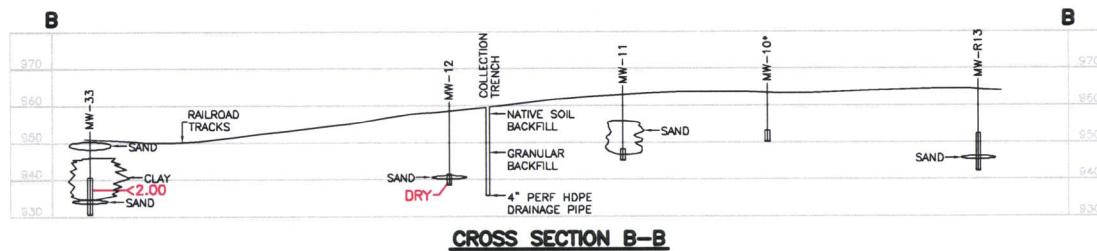
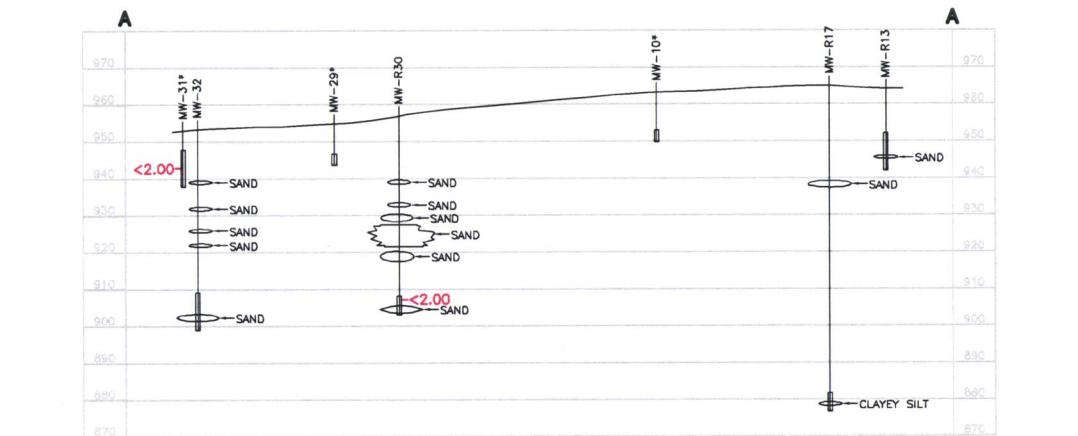
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FIGURE 16
HYDROGEOLOGIC PROFILE

1,2-DICHLOROETHANE CONCENTRATIONS
OCTOBER 15, 2009
SAUER-DANFOSS FACILITY
AMES, IOWA

02/24/10



LEGEND

* GEOLOGIC PROFILE UNKNOWN

<1.00 CONCENTRATION IN ug/L

G:\EGLPT\10\10-233\10-233 Base.dwg, 17

LEGEND

SCALE: HORIZ. 1" = 200'
VERT. 1" = 50'

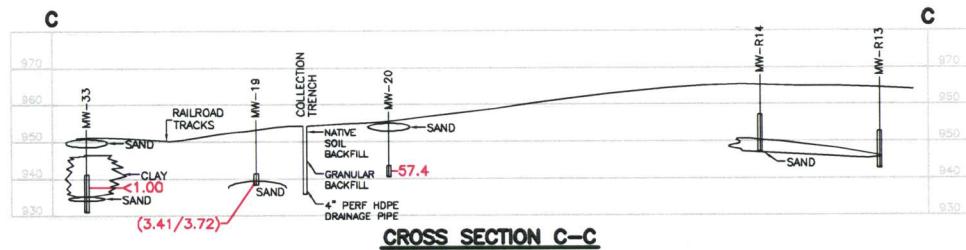
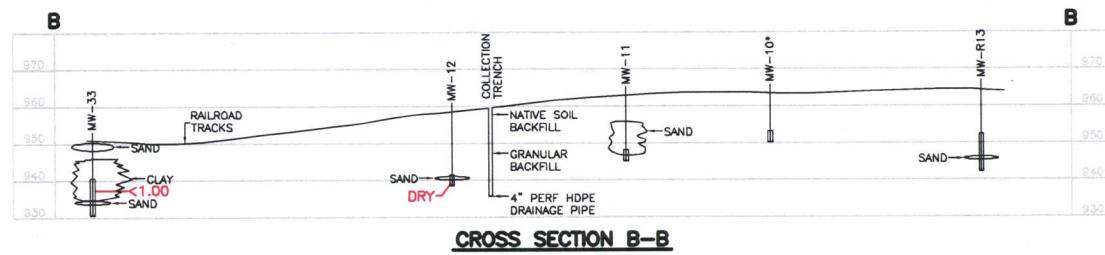
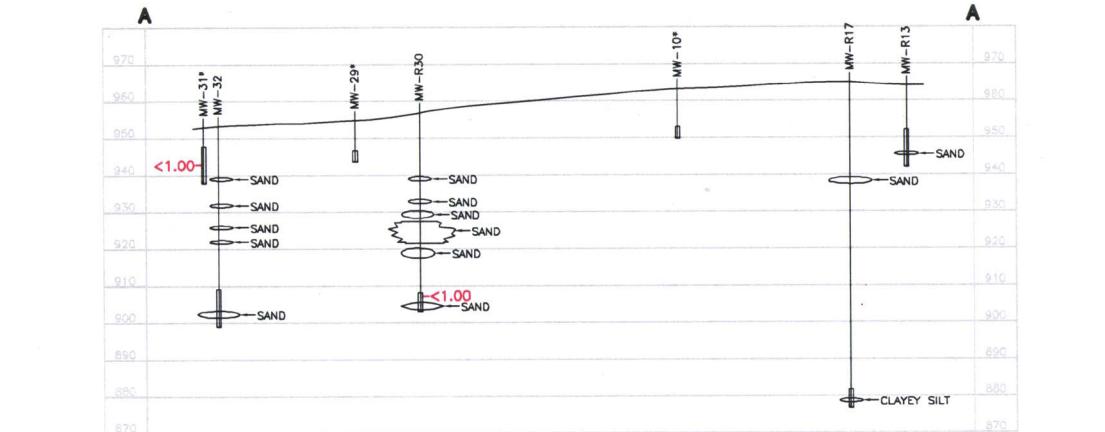


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FIGURE 17
HYDROGEOLOGIC PROFILE
1,1-DICHLOROETHENE CONCENTRATIONS
OCTOBER 15, 2009
SAUER-DANFOSS FACILITY
AMES, IOWA



LEGEND

* GEOLOGIC PROFILE UNKNOWN

<1.00 CONCENTRATION IN ug/L

G:\EGLPT\10\10-233\10-233 Base.dwg, 18

LEGEND

SCALE: HORZ. 1" = 200'
VERT. 1" = 50'



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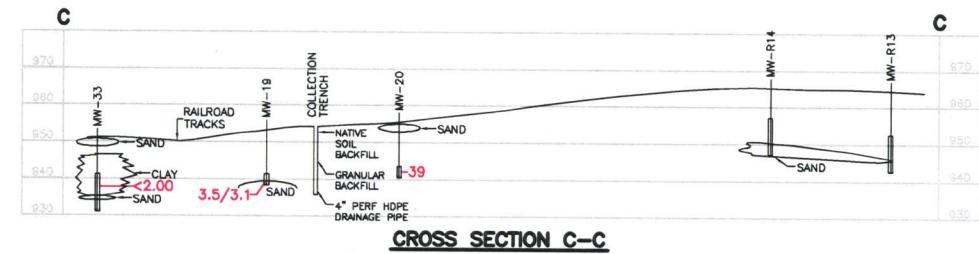
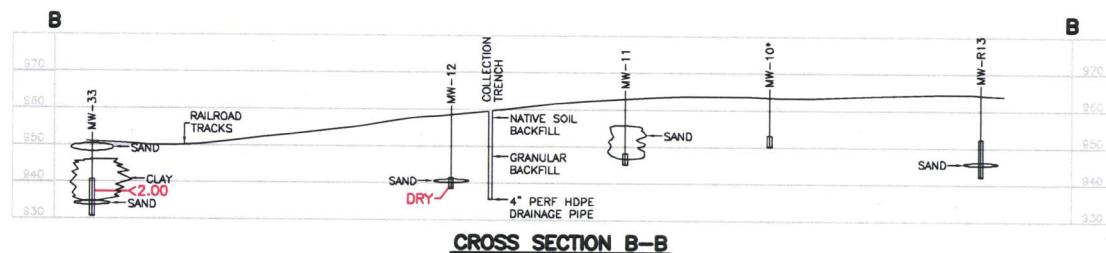
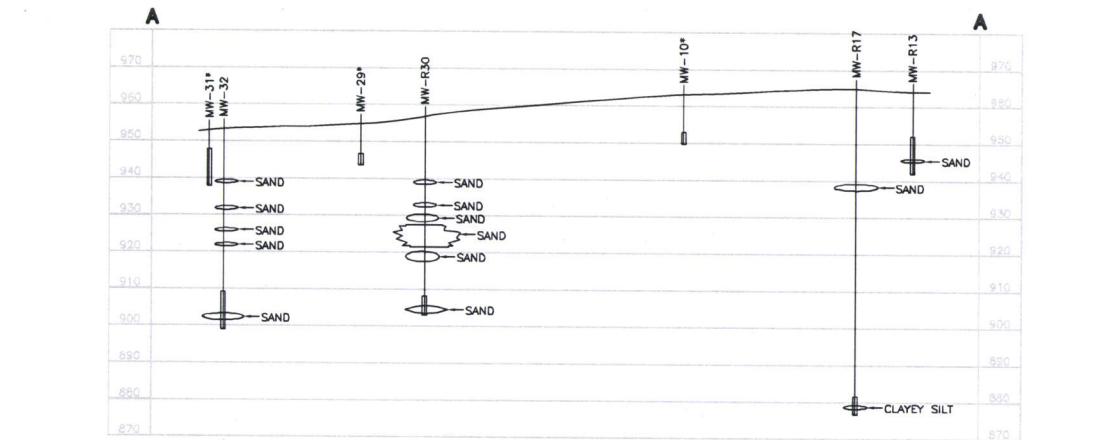
FREEPORT, IL ROCKFORD, IL ROCHELLE, IL SPRINGFIELD, IL MONROE, WI

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FIGURE 18
HYDROGEOLOGIC PROFILE
CIS-1,2-DICHLOROETHENE CONCENTRATIONS
OCTOBER 15, 2009
SAUER-DANFOSS FACILITY
AMES, IOWA



LEGEND

* GEOLOGIC PROFILE UNKNOWN

<1.00 CONCENTRATION IN ug/L

G:\EGLPT\10\10-233\10-233 Base.dwg, 19

LEGEND

SCALE: HORZ. 1" = 200'
VERT. 1" = 50'

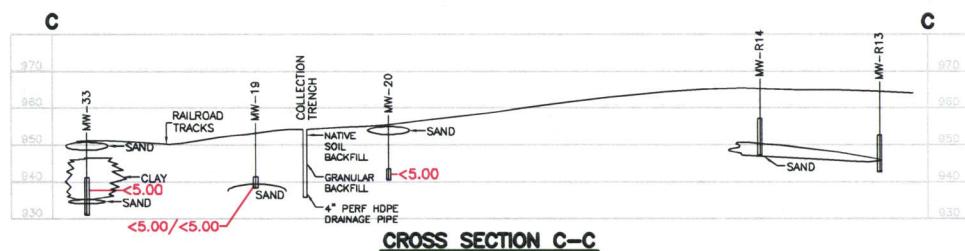
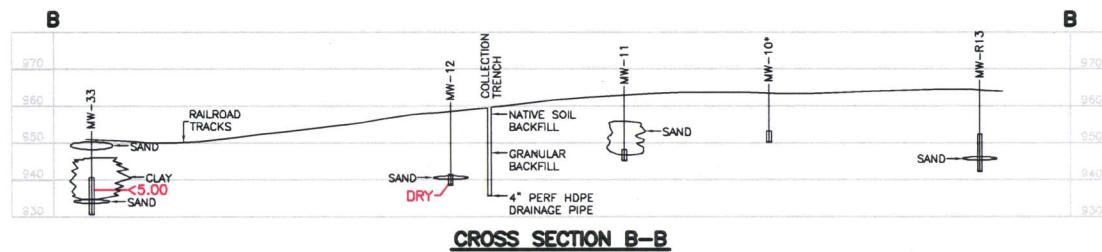
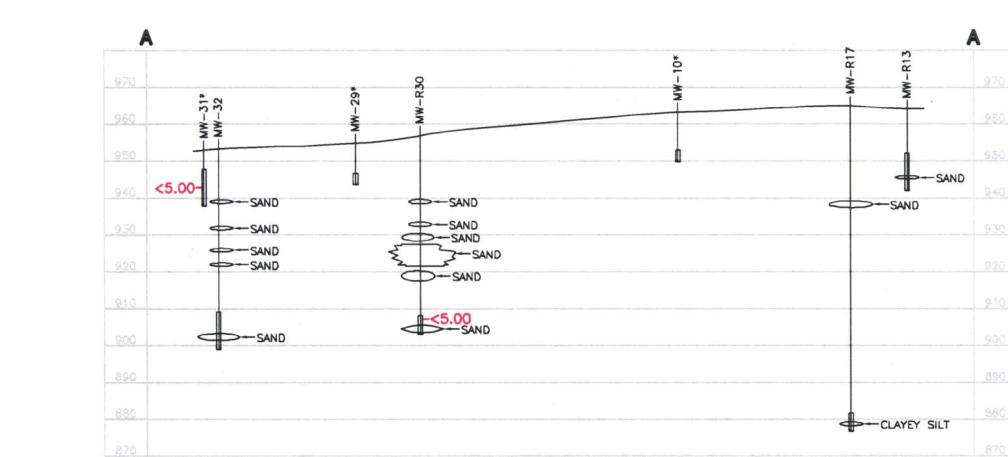


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FIGURE 19
HYDROGEOLOGIC PROFILE
1,4-DIOXANE CONCENTRATIONS
OCTOBER 15, 2009
SAUER-DANFOSS FACILITY
AMES, IOWA

02/24/10



LEGEND

- * GEOLOGIC PROFILE UNKNOWN
- <1.00 CONCENTRATION IN ug/L

G:\EGLPT\10\10-233\10-233 Base.dwg, 20

LEGEND

SCALE: HORZ. 1" = 200'
VERT. 1" = 50'



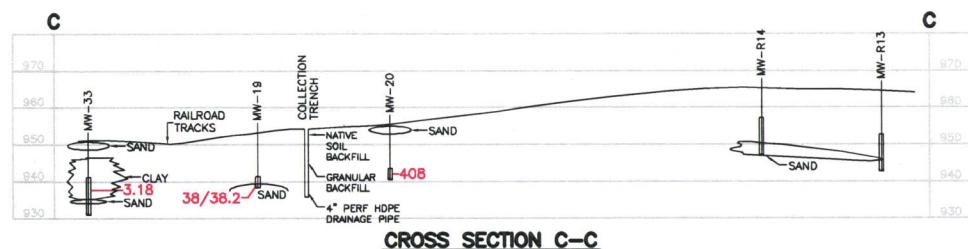
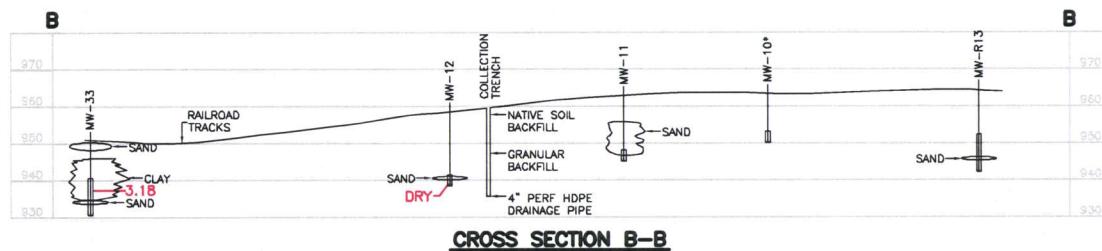
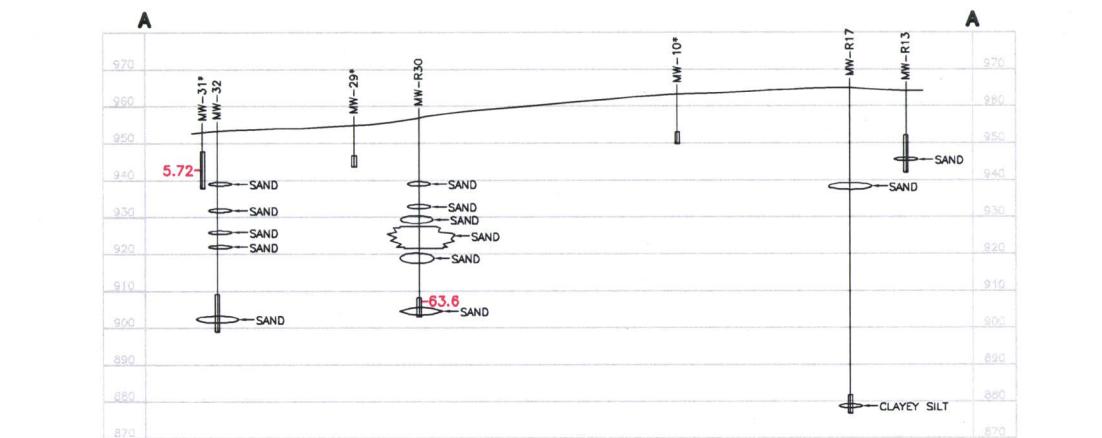
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FIGURE 20
HYDROGEOLOGIC PROFILE
METHYLENE CHLORIDE CONCENTRATIONS
OCTOBER 15, 2009
SAUER-DANFOSS FACILITY
AMES, IOWA

02/24/10



LEGEND

- * GEOLOGIC PROFILE UNKNOWN
- <1.00 CONCENTRATION IN ug/L

G:\EGLPT\10\10-233\10-233 Base.dwg, 21

LEGEND

SCALE: HORIZ. 1" = 200'
VERT. 1" = 50'



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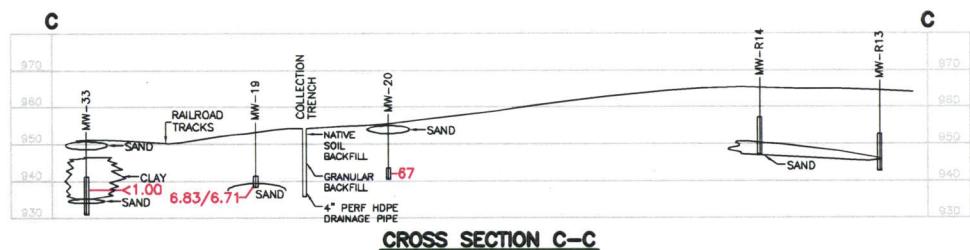
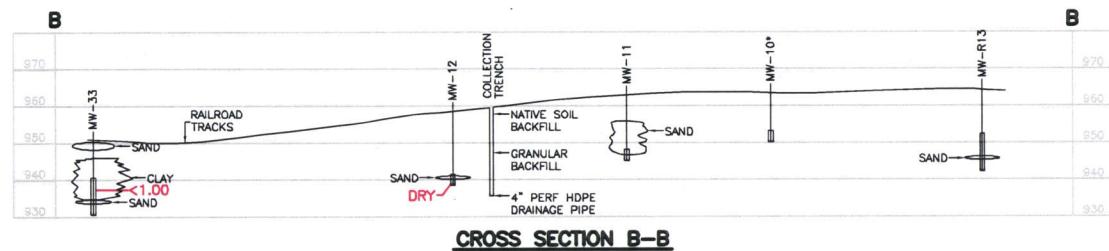
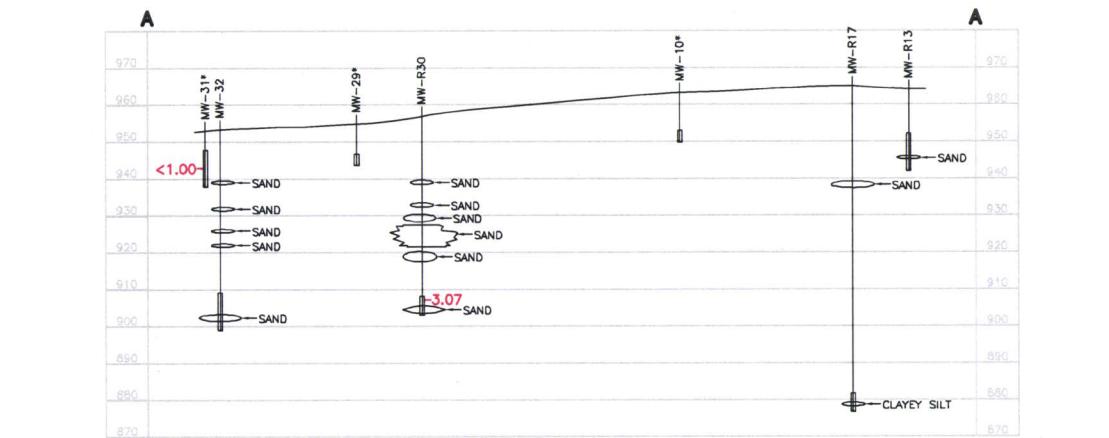
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FIGURE 21
HYDROGEOLOGIC PROFILE
TETRACHLOROETHENE CONCENTRATIONS
OCTOBER 15, 2009
SAUER-DANFOSS FACILITY
AMES, IOWA

02/24/10



LEGEND

* GEOLOGIC PROFILE UNKNOWN

<1.00 CONCENTRATION IN ug/L

G:\EGLPT\10\10-233\10-233 Base.dwg. 22

LEGEND

SCALE: HORZ. 1" = 200'
VERT. 1" = 50'



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FIGURE 22
HYDROGEOLOGIC PROFILE

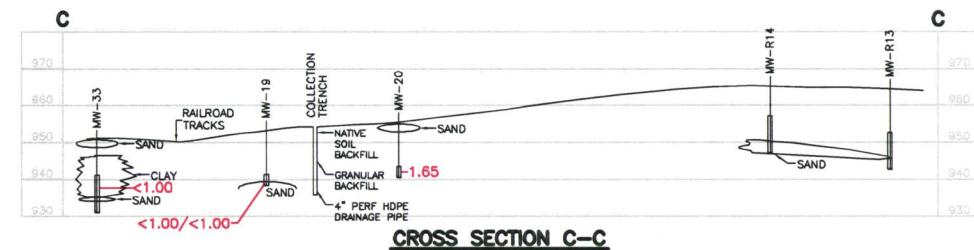
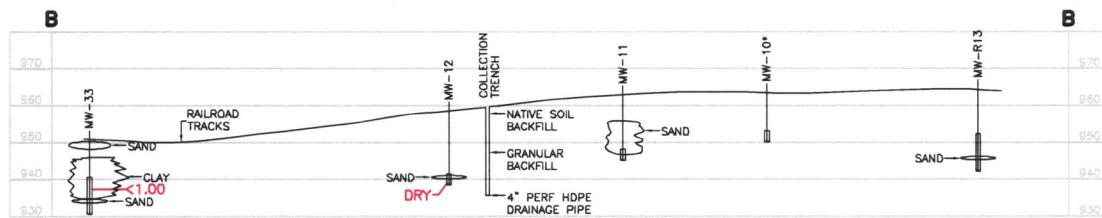
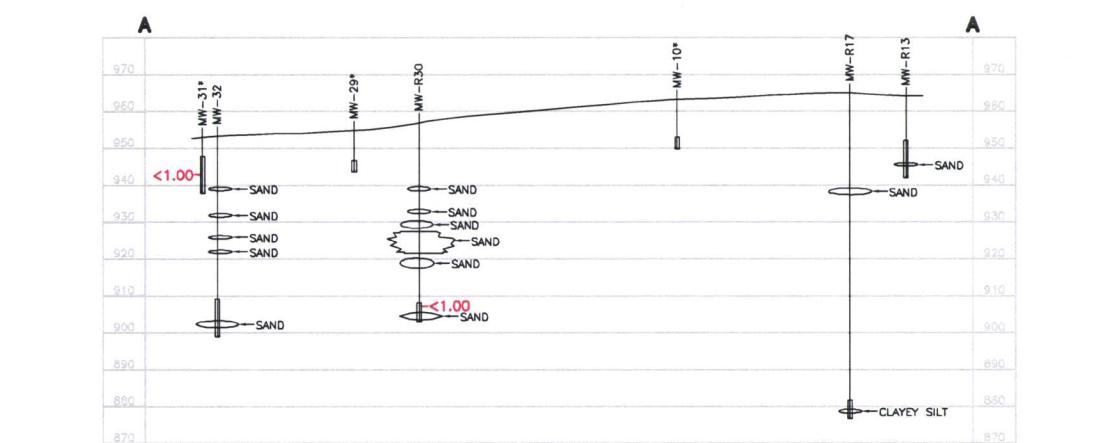
1,1,1-TRICHLOROETHANE CONCENTRATIONS

OCTOBER 15, 2009

SAUER-DANFOSS FACILITY

AMES, IOWA

02/24/10



LEGEND

- * GEOLOGIC PROFILE UNKNOWN
- <1.00 CONCENTRATION IN ug/L
- G:\EGLPT\10\10-233\10-233 Base.dwg, 23

LEGEND

SCALE: HORIZ. 1" = 200'
VERT. 1" = 50'



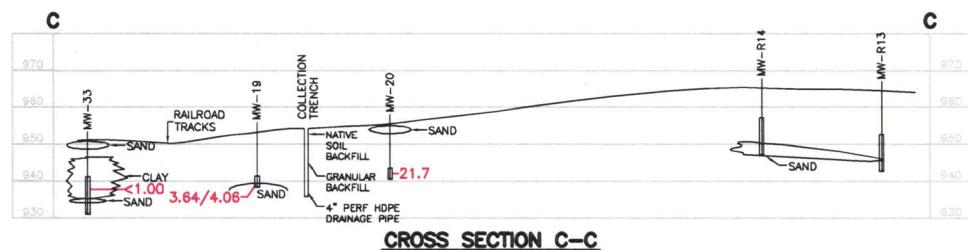
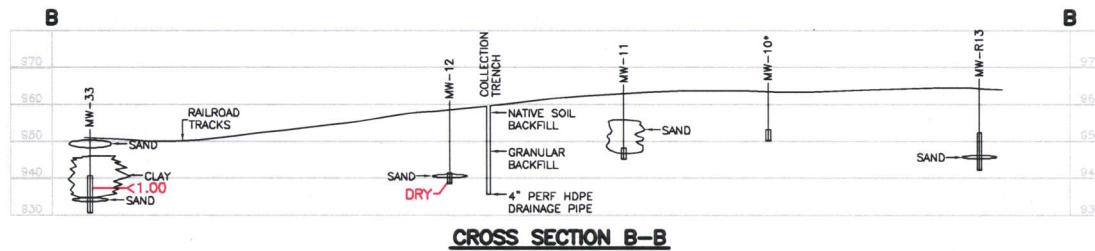
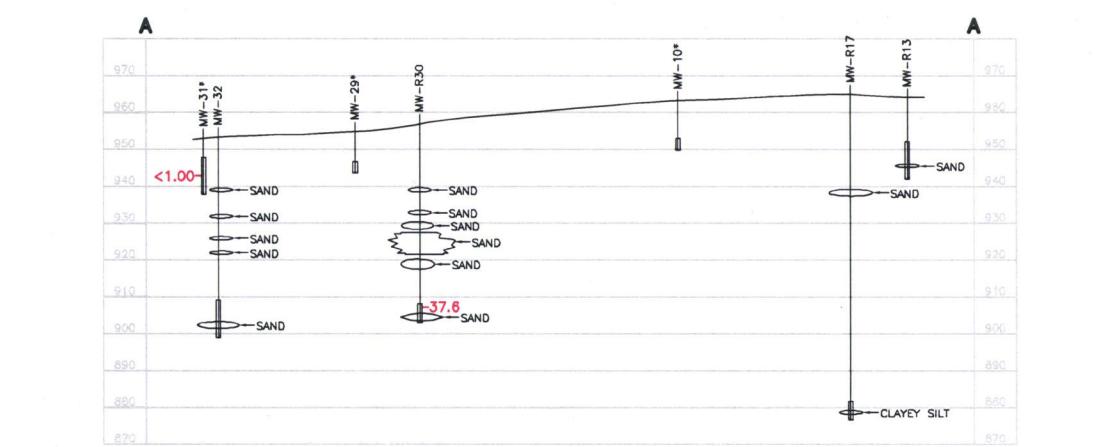
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FIGURE 23
HYDROGEOLOGIC PROFILE
1,1,2-TRICHLOROETHANE CONCENTRATIONS
OCTOBER 15, 2009
SAUER-DANFOSS FACILITY
AMES, IOWA

02/24/10



LEGEND

- * GEOLOGIC PROFILE UNKNOWN
- <1.00 CONCENTRATION IN ug/L

G:\EGLPT\10\10-233\10-233 Base.dwg, 24

LEGEND

SCALE: HORIZ. 1" = 200'
VERT. 1" = 50'



FEHR-GRAHAM & ASSOCIATES, LLC
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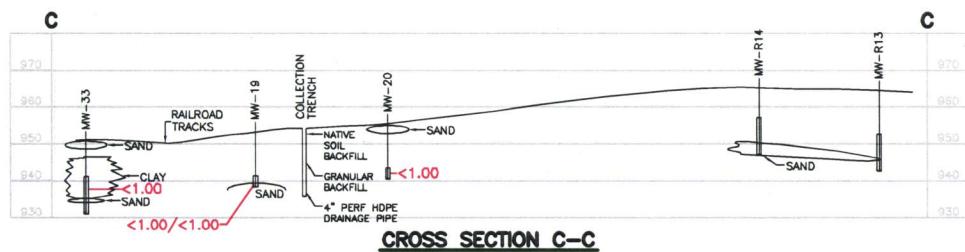
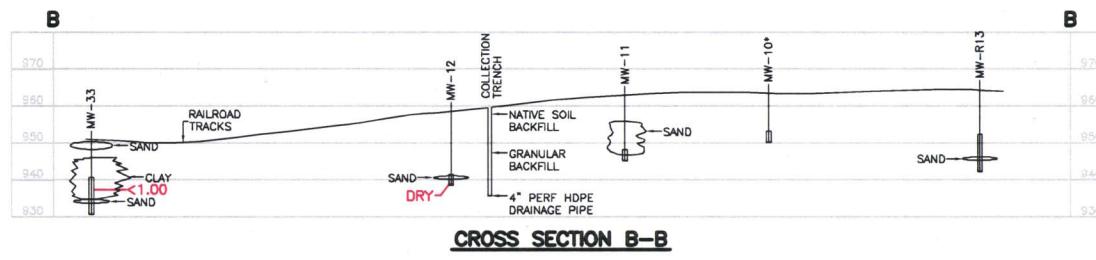
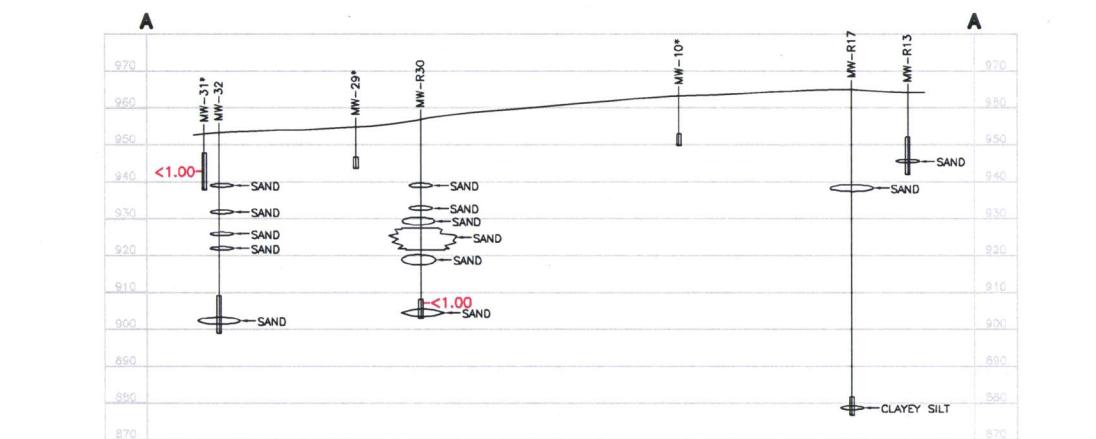
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FIGURE 24
HYDROGEOLOGIC PROFILE
TRICHLOROETHENE CONCENTRATIONS
OCTOBER 15, 2009
SAUER-DANFOSS FACILITY
AMES, IOWA

02/24/10



LEGEND

- * GEOLOGIC PROFILE UNKNOWN
- <1.00 CONCENTRATION IN ug/L

G:\EGLPT\10\10-233\10-233 Base.dwg, 25

LEGEND

SCALE: HORZ. 1" = 200'
VERT. 1" = 50'



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FIGURE 25
HYDROGEOLOGIC PROFILE
VINYL CHLORIDE CONCENTRATIONS
OCTOBER 15, 2009
SAUER-DANFOSS FACILITY
AMES, IOWA

02/24/10

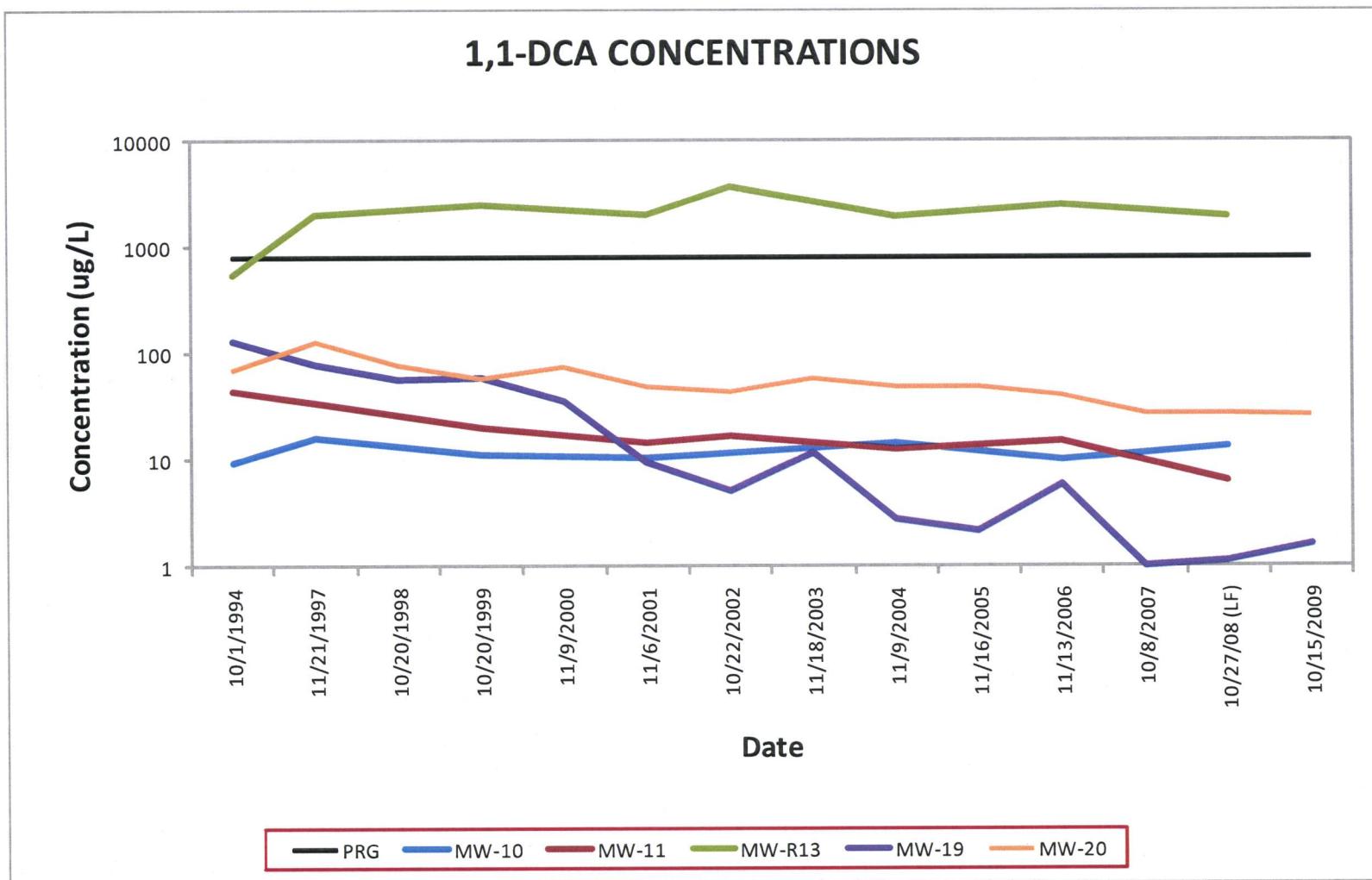


FIGURE 26
1,1-DCA CONCENTRATIONS
SAUER-DANFOSS FACILITY
AMES, IOWA

G:\EGLPT\10\10-233\10-233 Base.dwg. 26

02/24/10

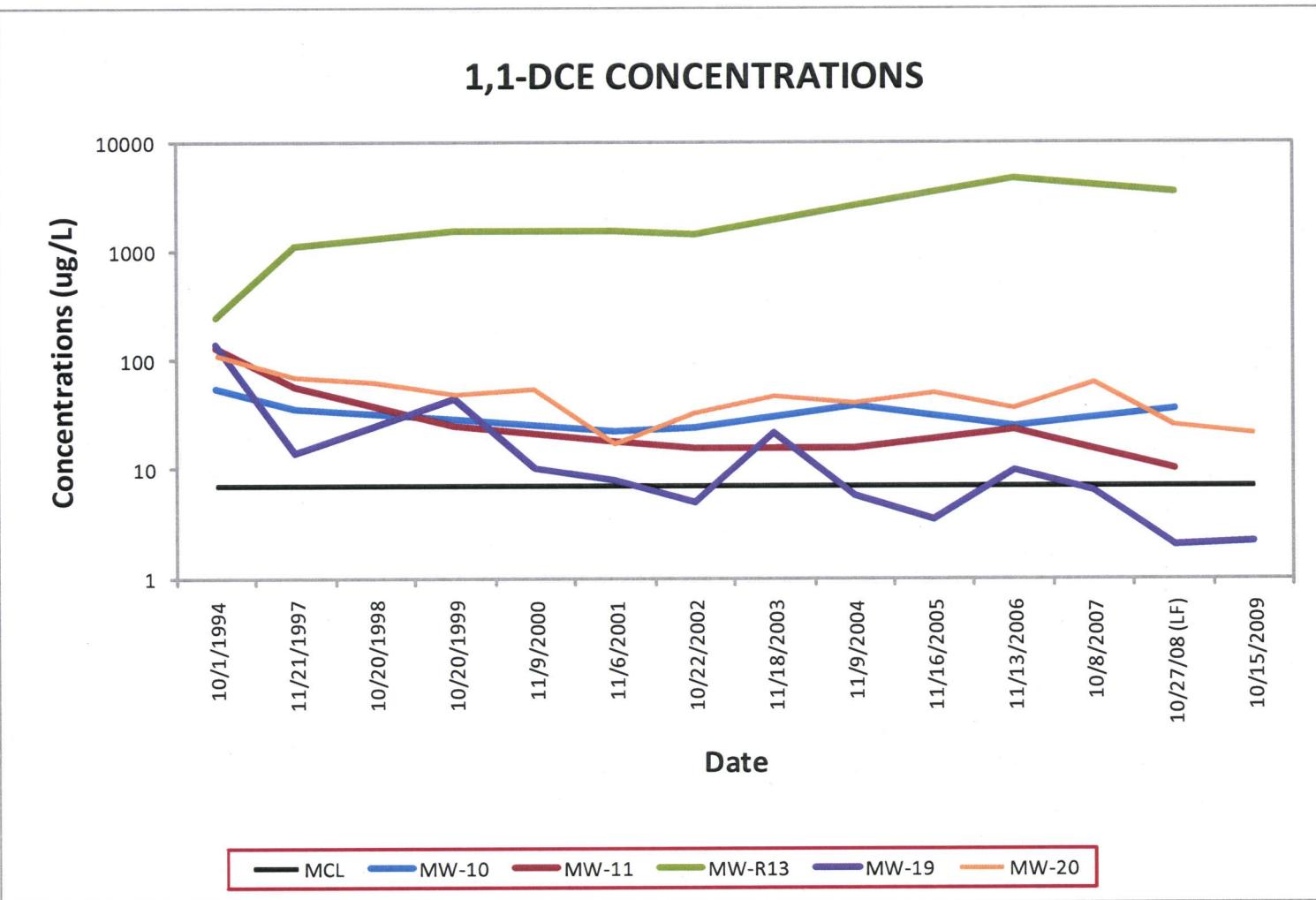


FIGURE 27
1,1-DCE CONCENTRATIONS
SAUER-DANFOSS FACILITY
AMES, IOWA

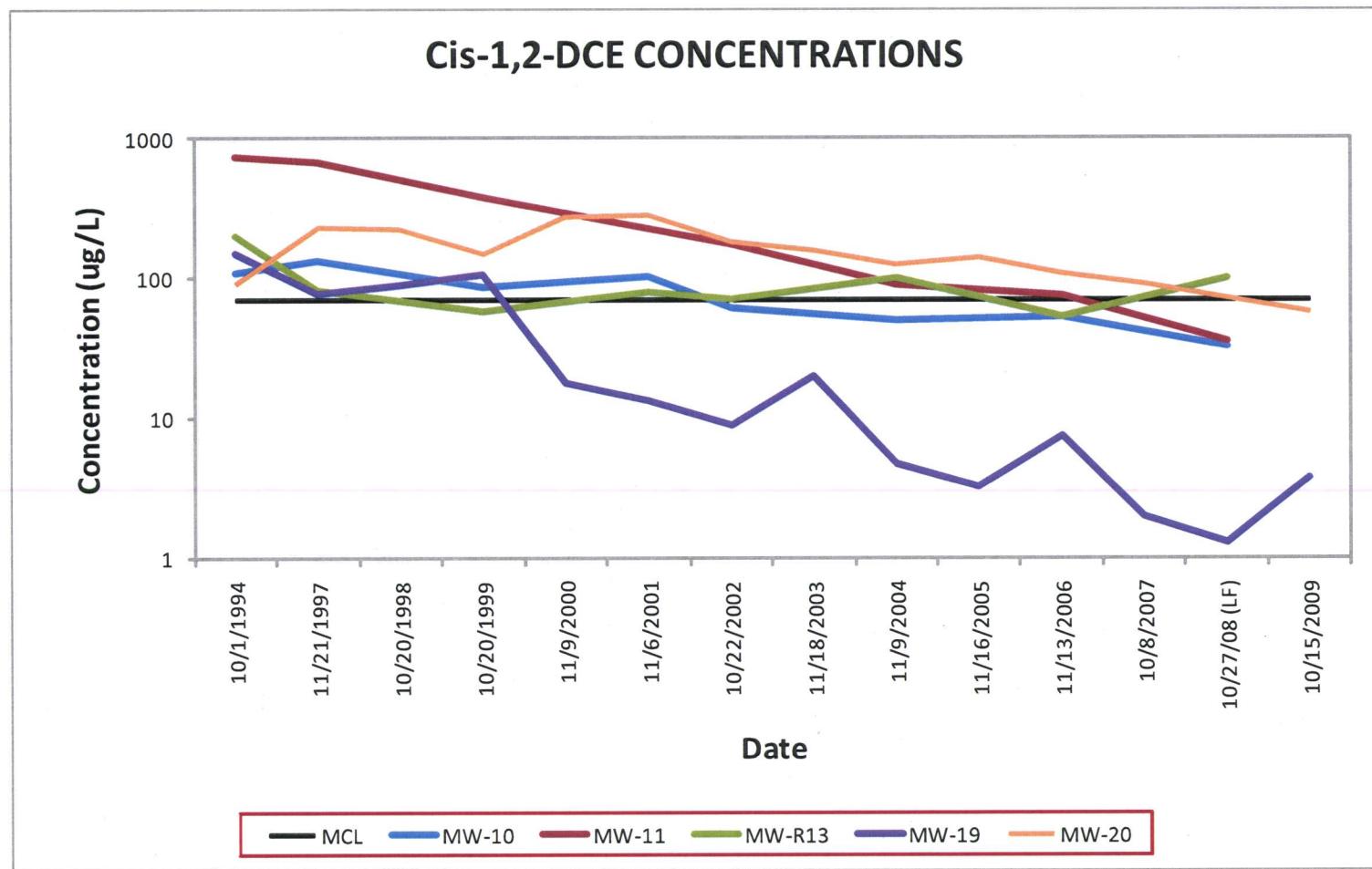


FIGURE 28
CIS-1,2-DCE CONCENTRATIONS
SAUER-DANFOSS FACILITY
AMES, IOWA

02/24/10

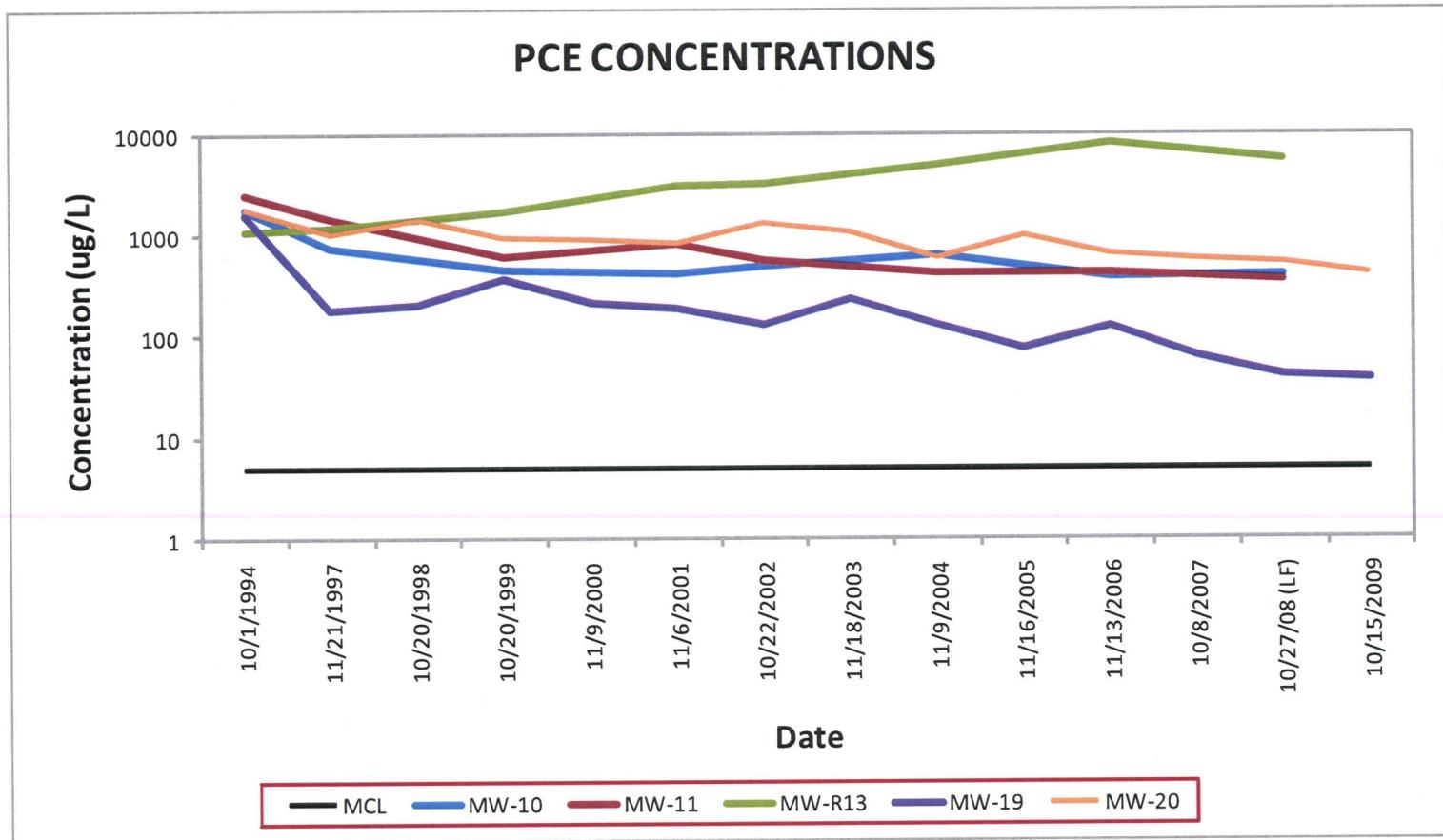


FIGURE 29
PCE CONCENTRATIONS
SAUER-DANFOSS FACILITY
AMES, IOWA

G:\EGLPT\10\10-233\10-233 Base.dwg. 29

02/24/10



© 2010 FEHR-GRAHAM & ASSOCIATES

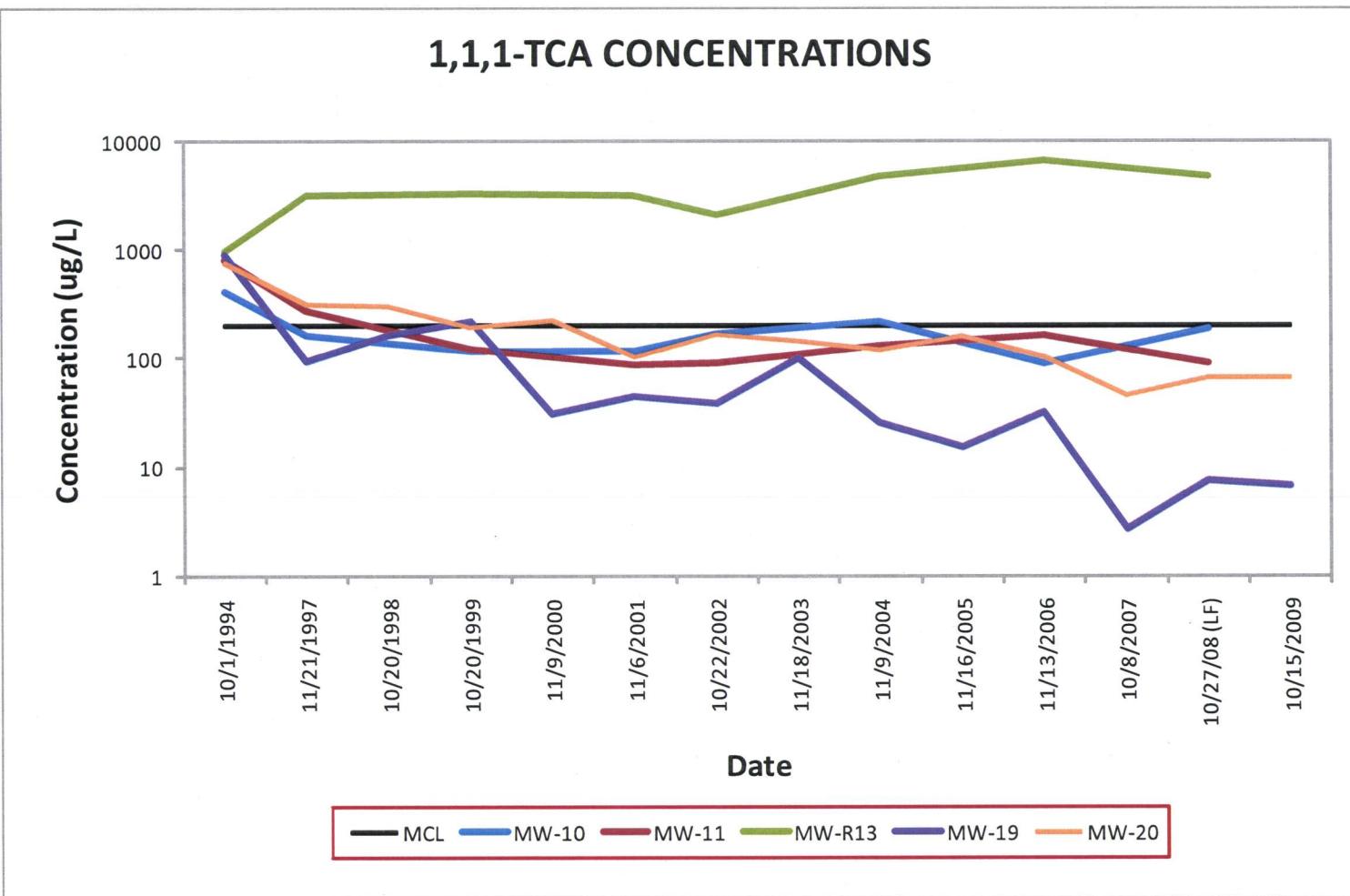


FIGURE 30
1,1,1-TCA CONCENTRATIONS
SAUER-DANFOSS FACILITY
AMES, IOWA

02/24/10



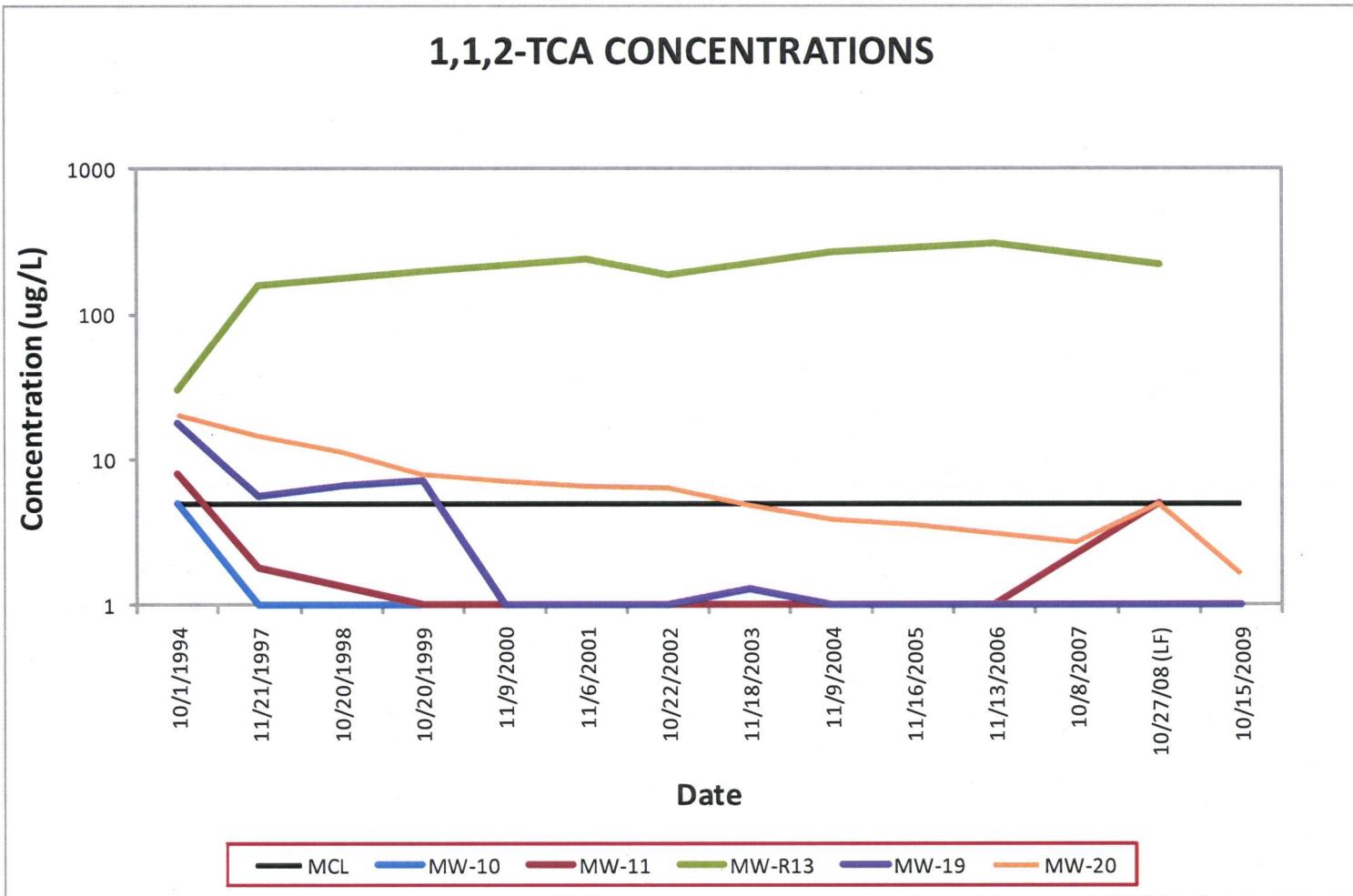


FIGURE 31
1,1,2-TCA CONCENTRATIONS
SAUER-DANFOSS FACILITY
AMES, IOWA

G:\EGLPT\10\10-233\10-233 Base.dwg, 31

02/24/10



© 2010 FEHR-GRAHAM & ASSOCIATES

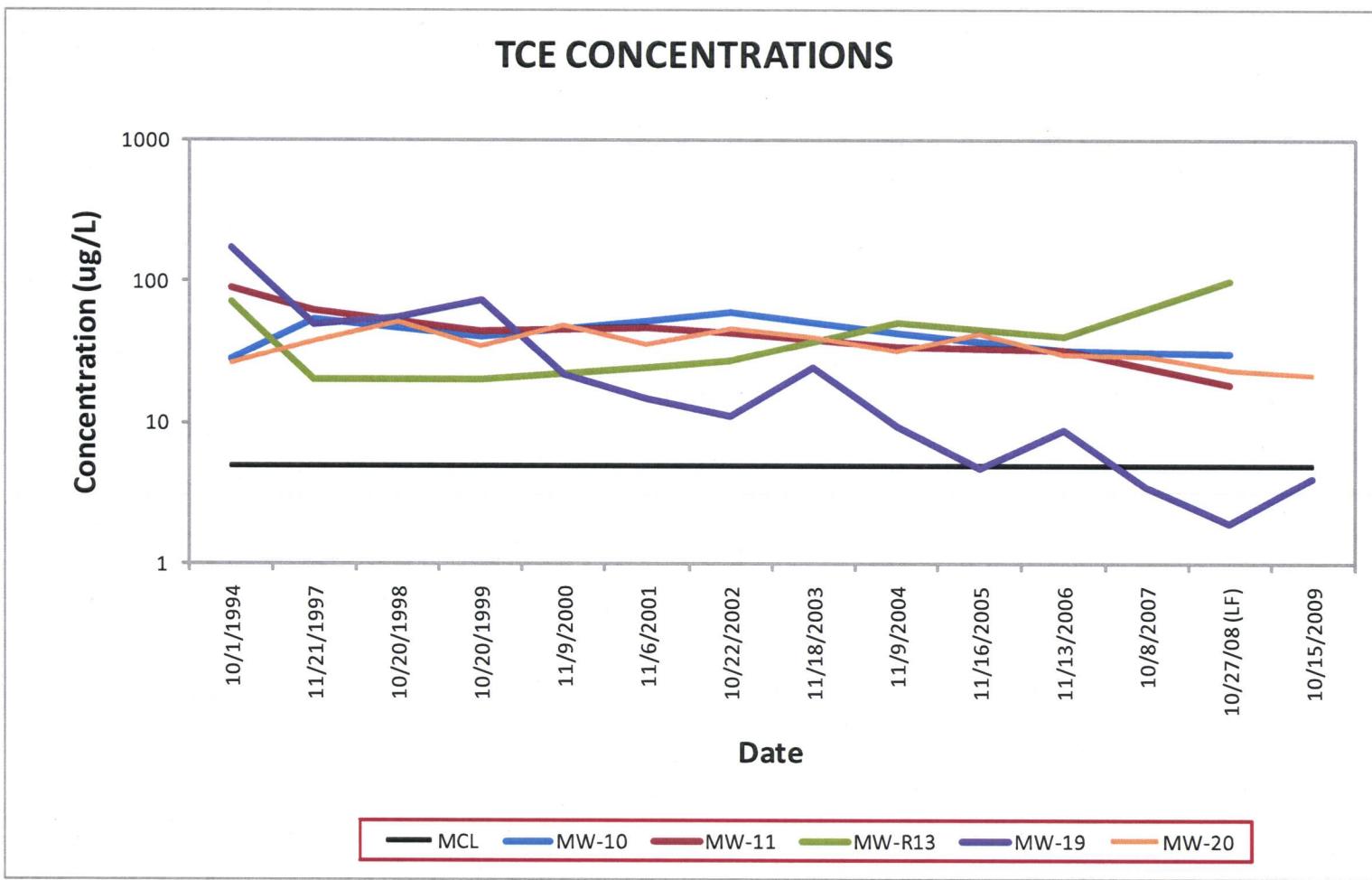


FIGURE 32
TCE CONCENTRATIONS
SAUER-DANFOSS FACILITY
AMES, IOWA

G:\EGLPT\10\10-233\10-233 Base.dwg. 32

02/24/10



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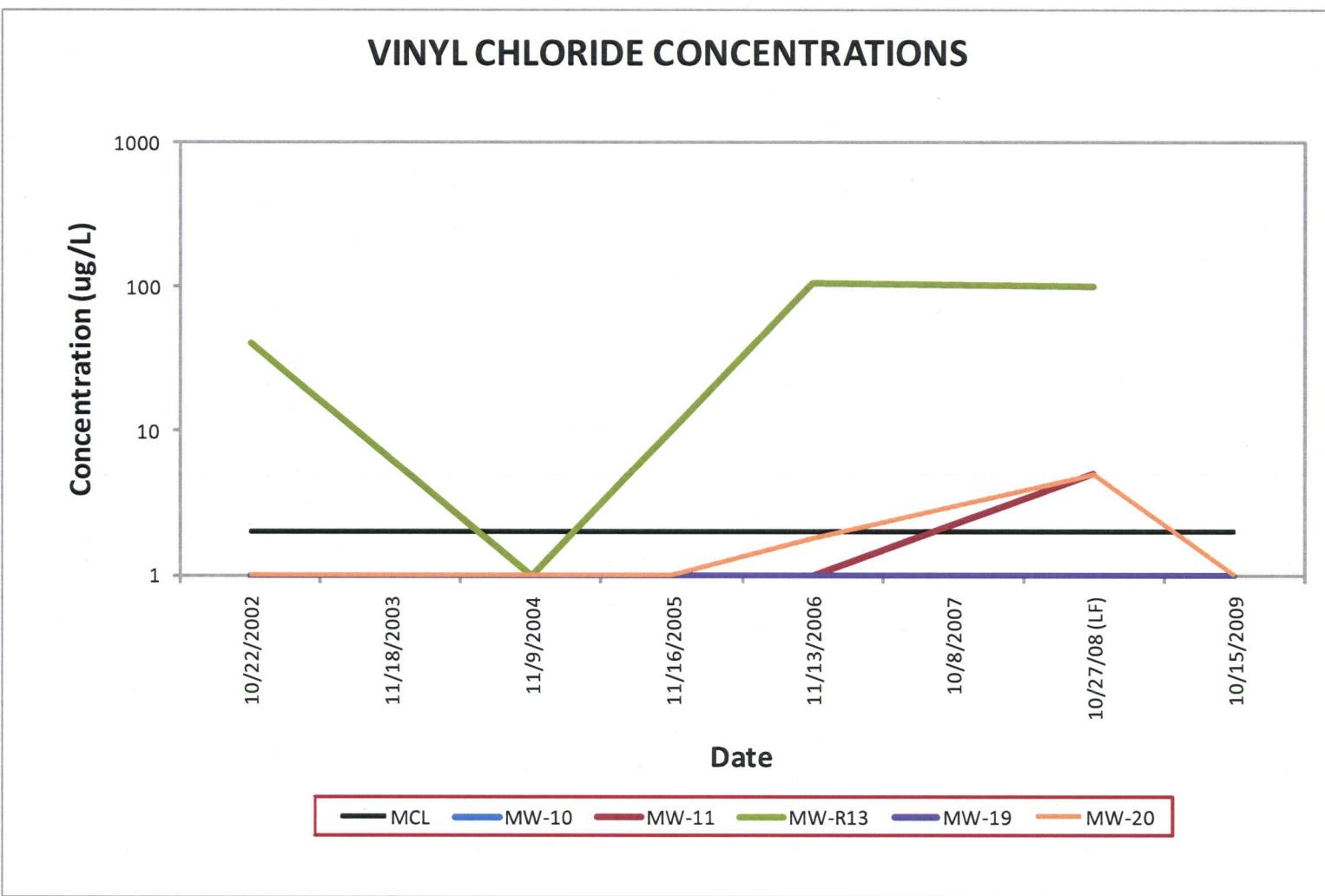


FIGURE 33
VINYL CHLORIDE CONCENTRATIONS
SAUER-DANFOSS FACILITY
AMES, IOWA

02/24/10

ATTACHMENTS

ATTACHMENT 1

2009 Semiannual Remedial System Maintenance Memorandums



Civil • Surveying • EHS • Municipal • IT

MEMORANDUM

TO: Tod Strudthoff
FROM: Ken Thompson
SUBJECT: SEMIANNUAL REMEDIAL SYSTEM MAINTENANCE, 09-233
DATE: June 7, 2009

Semiannual groundwater remedial system maintenance was conducted on June 4, 2009, by FGA and Mechanical Comfort personnel. Maintenance activities are summarized below:

- Operation of the standpipe level sensor was confirmed in the manual operating mode by closing the valve on the standpipe and filling the standpipe with water. The pump was deactivated once the water level reached the level sensor.
- The transducer installation was measured at 19 feet, 3 inches (bottom of sensor to top of casing pipe, which is marked with a white plastic zip tie around the sensor cable), equal to the original installed depth of 19 feet, 3 inches.
- The sump water level was measured at 19.00 feet above the bottom of the transducer, using a water level probe. The corresponding reading displayed by the computer controller was 9.58 feet. Mechanical Comfort could not recalibrate the computer controller to correct the 9.42 foot difference between the measured water level and that displayed by the computer controller. Further investigation found that the 4-20 mili-amps signal was reading 13 mili-amps at the sump and 7 mili-amps at the control panel was drifting and would not stabilize. The dry electrical junction box near the sump was found to have water in it Mechanical Comfort feel that the signal wire has been damaged or has deteriorated over time and needs to be replaced.
- The sump was probed for sediment with a water level probe. The sump depth, as measured from the sump cover, was 22.30 feet, 2.00 feet less than the original measurement in January 1998 (24.30 feet). The bottom of the sump is currently 1.00 foot below the incoming interception trench drainage pipe (21.30 feet).
- The inside and outside air temperatures displayed by the computer controller were confirmed using a Fluke 87 RMS multimeter. The inside air temperature was measured at 65.0 degrees Fahrenheit, compared with a computer controller reading of 65.1 degrees Fahrenheit. The outside air temperature was measured at 64.0 degrees Fahrenheit, compared with a computer controller reading of 61.1 degrees Fahrenheit.
- The water temperature was measured at 50.9 degrees Fahrenheit with a thermometer, compared with a computer controller reading of 50.1 degrees Fahrenheit.

Mechanical Comfort was directed to further investigate the problem and make the proper repairs to the system based on this semiannual maintenance event. The next semiannual maintenance will be conducted during the 4th quarter of 2009.



Civil • Surveying • EHS • Municipal • IT

MEMORANDUM

TO: Gary Erickson
FROM: Ken Thompson
SUBJECT: SEMIANNUAL REMEDIAL SYSTEM MAINTENANCE, 09-233
DATE: November 24, 2009

Semiannual groundwater remedial system maintenance was conducted on November 19, 2009, by FGA and Mechanical Comfort, Inc. personnel. Maintenance activities are summarized below:

- Operation of the standpipe level sensor was not tested during this site visit as the groundwater remedial system waste line had been re-routed and the water level sensor was not moved to the new location, this issue was discussed with plant personnel and management. FGA was assured that level sensor would be relocated as well.
- The transducer installation was measured at 19 feet, 6 inches (bottom of sensor to top of casing pipe, which is marked with a white plastic zip tie around the sensor cable), 3 inches greater than the original installed depth of 19 feet, 3 inches.
- The sump water level was measured at 6.0 feet above the bottom of the transducer, using a water level probe. The corresponding reading displayed by the computer controller was 6.3 feet. The computer controller was not recalibrated to correct the 3-inch difference between the measured water level and that displayed by the computer controller.
- The sump was probed for sediment with a water level probe. The sump depth, as measured from the sump cover, was 22.40 feet, 1.90 feet less than the original measurement in January 1998 (24.3 feet). The bottom of the sump is currently 0.75 feet below the incoming interception trench drainage pipe (21.3 feet).
- The inside and outside air temperatures displayed by the computer controller were confirmed using a Fluke 87 RMS multimeter. The inside air temperature was measured at 70.0 degrees Fahrenheit, compared with a computer controller reading of 79.0 degrees Fahrenheit. The outside air temperature was measured at 45.8 degrees Fahrenheit, compared with a computer controller reading of 42.8 degrees Fahrenheit. The controller was adjusted 3 degrees to match outside air temperature.
- The water temperature was measured at 53.0 degrees Fahrenheit with a thermometer, compared with a computer controller reading of 54.1 degrees Fahrenheit.

No adjustments or repairs other than the relocation of the standpipe level sensor are recommended based on this semiannual maintenance event. The next semiannual maintenance will be conducted during the first quarter of 2010.

ATTACHMENT 2

2009 Quarterly Monitoring Reports



FEHR-GRAHAM & ASSOCIATES
Engineering and Science Consultants

Civil

Surveying

Municipal

Structural

EHS

IT

221 E. Main Street • Suite 200 • Freeport, IL 61032
E-mail: fga@fehr-graham.com

Ph: 815/235-7643 • Fax: 815/235-4632
Web: www.fehr-graham.com

April 7, 2009

FILE COPY

Mr. Tod Strudthoff
Sauer-Danfoss (US) Company
2800 East 13th Street
Ames, IA 50010

RE: Non-Domestic Waste Pretreatment Program Quarterly Report – 1st Quarter 2009

Dear Mr. Strudthoff:

Enclosed please find three copies of the above-referenced documents. Please review for completeness and accuracy, and if satisfactory sign and date where indicated. The original set, along with the enclosed cover letter, should be forwarded to the Water and Pollution Control Department for the City of Ames. For your convenience, certified mailing labels are enclosed. Retain one copy for your records and return the final copy to my attention.

If you have any questions regarding the enclosed documents, please do not hesitate to contact this office.

Sincerely,

Daniel M. Stoehr
Project Environmental Scientist

DMS:mll
I:\Documents\SEC 2009\09-313\DMIS 09-313 - 1st Qtrr Wastewater to City of Ames.doc
Enclosure

Hans A. Anderson, P.E.
R. Todd Weegens, P.E.
Mick W. Gronewold, P.E.
Ken R. Thompson
Adam G. Holder, P.E.



FEHR-GRAHAM & ASSOCIATES
Engineering and Science Consultants

Civil

Surveying

Municipal

Structural

EHS

IT

221 E. Main Street • Suite 200 • Freeport, IL 61032
E-mail: fga@fehr-graham.com

Ph: 815/235-7643 • Fax: 815/235-4632
Web: www.fehr-graham.com

CERTIFIED MAIL NO. 7008 0150 0001 0180 7954
RETURN RECEIPT REQUESTED

April 8, 2009

FILE COPY

City of Ames, Iowa
Water and Pollution Control Department
300 East Fifth Street, Building 1
Ames, IA 50010

RE: Non-Domestic Waste Pretreatment Program Quarterly Report – 1st Quarter 2009
Sauer-Danfoss (US) Company
2800 East 13th Street
Ames, IA 50010
Facility Permit No. 6593-7

Dear Sir/Madam:

Enclosed, please find the Non-Domestic Waste Pretreatment Program Quarterly Report for wastewater discharge from the above-referenced facility for the 1st quarter of 2009. Also enclosed are copies of the analytical reports from Keystone Labs and Test America for the analysis of wastewater and groundwater remediation respectively.

Should you have any questions regarding these documents, please do not hesitate to contact this office.

Sincerely,

Daniel M. Stoehr
Project Environmental Scientist

DMS:mll
E:\Documents\SEC 2009\09-313\DMMS 09-313 - 1st Qtr Wastewater to City of Ames.doc
Enclosure

cc: Tod Strudhoff, Sauer-Danfoss (w/enc.)

Non-Domestic Waste Pretreatment Program
Quarterly Report
(Non-Significant, Non-Domestic Contributor)

1st Quarter 2009

Reporting Period: January 1, 2009 to March 31, 2009

Submit results on or before the 10th of the month following the end of the quarter

Facility: Sauer-Danfoss
Permit No: 6593-7
Facility Contact: Tod Strudthoff
Facility Phone No: 239-6242
Sampling Location: Front Parking Lot North Manhole (Wastewater)/On-Site Wastewater Treatment
Sample Type: Sample Port (GW Remediation)
Sample Date: Grab & 24 Hour Composite
2.13.09 (GW Remediation)/2.11.09 (Wastewater)

| Analyte | Permit Limit Mg/L | Sample Results Mg/L |
|-------------------------------|--------------------------------|------------------------|
| Facility | Sauer Danfoss 2800 East 13th | |
| Flow | Gals/Day | 30,510 |
| pH | 6-10 pH | 8.8 |
| TSS | 1,500 | 395 |
| Cyanide | 0.55 | 0.02 |
| Ammonia (NH3) | 200 | 37.7 |
| Total Kjeldahl Nitrogen (TKN) | 250 | 68 |
| Oil & Grease | 300 | 46 |
| CBOD 5 | 1,500 | 261 |
| COD | 2,500 | 802 |
| Molybdenum | 0.19 | 0.083 |
| GW remediation | Max Expected Concentration g/L | Sample Results g/L |
| Flow (remediation) | Gals/Qtr | 81,332 |
| Acetone | 44 | 0.00028 |
| 1,1-Dichloroethane | 370 | 0.0000086 |
| 1,1-Dichloroethene | 170 | 0.000017 |
| cis- 1,2-Dichloroethane | 490 | <0.000001 |
| Tetrachloroethene | 1700 | 0.00039 |
| 1,1,1-Trichloroethane | 650 | 0.000059 |
| Trichloroethene | 110 | 0.000021 |
| Total Xylenes | 11 | 0.0000055 |

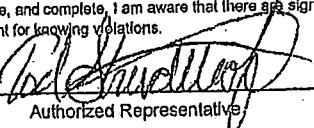
Note: Please attach sample results from Laboratory

Process or Treatment Change: None

Additional Comments: 1. Beginning with 1st Quarter 2009, Fehr-Graham and Associates will direct groundwater remediation project for Sauer-Danfoss.
2. Note new facility Contact Person.
3. Monthly flow data for GW Remediation is attached.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person(s) who managed the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signed


Authorized Representative

Date Apr. 10, 2009

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 500-17124-1

SDG Number: 500-17124-1

Job Description: 09-233 Sauer Danfoss

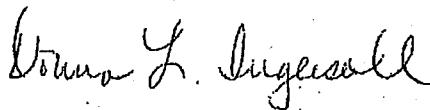
For:

Fehr-Graham & Associates

1920 Daimler Road

Rockford, IL 61112

Attention: Ms. Erin Jarrett



Approved for release.
Donna L. Ingersoll
Project Manager II
2/19/2009 2:28 PM

Donna L. Ingersoll
Project Manager II
donna.ingersoll@testamericainc.com
02/19/2009

cc: Ms. Donna Ingersoll

These test results meet all the requirements of NELAC for accredited parameters.

The Lab Certification ID# is 100201.

All questions regarding this test report should be directed to the TestAmerica Project Manager whose signature appears on this report. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

TestAmerica Laboratories, Inc.

TestAmerica Chicago 2417 Bond Street, University Park, IL 60466

Tel (708) 534-5200 Fax (708) 534-5211 www.testamericainc.com



Job Narrative
500-J17124-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

GC/MS VOA

No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: Fehr-Graham & Associates

Job Number: 500-17124-1
Sdg Number: 500-17124-1

| Lab Sample ID Analyte | Client Sample ID | Result / Qualifier | Reporting Limit | Units | Method |
|--------------------------|------------------|--------------------|--------------------|-------|--------|
| 500-17124-1 | 26560-1Q2009 | | | | |
| 1,1-Dichloroethene | | 0.017 | 0.0010 | mg/L | 8260B |
| Acetone | | 0.28 | 0.10 | mg/L | 8260B |
| 1,1-Dichloroethane | | 0.0086 | 0.0010 | mg/L | 8260B |
| 1,1,1-Trichloroethane | | 0.059 | 0.0010 | mg/L | 8260B |
| Trichloroethene | | 0.021 | 0.0010 | mg/L | 8260B |
| Tetrachloroethene | | 0.39 | 0.020 | mg/L | 8260B |
| Xylenes, Total | | 0.0055 | 0.0020 | mg/L | 8260B |

METHOD SUMMARY

Client: Fehr-Graham & Associates

Job Number: 500-17124-1
Sdg Number: 500-17124-1

| Description | Lab Location | Method | Preparation Method |
|------------------------------------------------------|--------------------|----------------------------|--------------------|
| Matrix: Water | | | |
| Volatile Organic Compounds (GC/MS) Purge and Trap | TAL CHI TAL CHI | SW846 8260B SW846 5030B | |

Lab References:

TAL CHI = TestAmerica Chicago

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Fehr-Graham & Associates

Job Number: 500-17124-1
Sdg Number: 500-17124-1

| <u>Method</u> | <u>Analyst</u> | <u>Analyst ID</u> |
|---------------|-----------------|-------------------|
| SW846 8260B | Swaney, Garth E | GES |

SAMPLE SUMMARY

Client: Fehr-Graham & Associates

Job Number: 500-17124-1
Sdg Number: 500-17124-1

| Lab Sample ID | Client Sample ID | Client Matrix | Date/Time Sampled | Date/Time Received |
|---------------|------------------|---------------|-------------------|--------------------|
| 500-17124-1 | 25560-1Q2009 | Water | 02/13/2009 1300 | 02/14/2009 1000 |

SAMPLE RESULTS

Ms. Erin Jarrett
Fehr-Graham & Associates
1920 Daimler Road
Rockford, IL 61112

Job Number: 500-17124-1
Sdg Number: 500-17124-1

Client Sample ID: 25560-1Q2009
Lab Sample ID: 500-17124-1

Date Sampled: 02/13/2009 1300
Date Received: 02/14/2009 1000
Client Matrix: Water

| Analyte | Result/Qualifier | Unit | MDL | RL | Dilution |
|------------------------------|------------------|------|--------------------------------|--------|----------|
| Method: 8260B | | | Date Analyzed: 02/16/2009 1550 | | |
| Prep Method: 5030B | | | Date Prepared: 02/16/2009 1550 | | |
| 1,1-Dichloroethene | 0.017 | mg/L | 0.00022 | 0.0010 | 1.0 |
| 1,1-Dichloroethane | 0.0086 | mg/L | 0.00018 | 0.0010 | 1.0 |
| 1,1,1-Trichloroethane | 0.059 | mg/L | 0.00023 | 0.0010 | 1.0 |
| 1,2-Dichloroethane | <0.0010 | mg/L | 0.00022 | 0.0010 | 1.0 |
| Trichloroethene | 0.021 | mg/L | 0.00020 | 0.0010 | 1.0 |
| Xylenes, Total | 0.0055 | mg/L | 0.00033 | 0.0020 | 1.0 |
| Surrogate | | | Acceptance Limits | | |
| 1,2-Dichloroethane-d4 (Surr) | 109 | % | 70 - 125 | | |
| Toluene-d8 (Surr) | 95 | % | 75 - 120 | | |
| 4-Bromofluorobenzene (Surr) | 103 | % | 75 - 120 | | |
| Dibromofluoromethane | 100 | % | 75 - 120 | | |
| Method: 8260B Run Type: DL | | | Date Analyzed: 02/16/2009 1615 | | |
| Prep Method: 5030B | | | Date Prepared: 02/16/2009 1615 | | |
| Acetone | 0.28 | mg/L | 0.024 | 0.10 | 20 |
| Tetrachloroethene | 0.39 | mg/L | 0.0028 | 0.020 | 20 |
| Surrogate | | | Acceptance Limits | | |
| 1,2-Dichloroethane-d4 (Surr) | 107 | % | 70 - 125 | | |
| Toluene-d8 (Surr) | 94 | % | 75 - 120 | | |
| 4-Bromofluorobenzene (Surr) | 101 | % | 75 - 120 | | |
| Dibromofluoromethane | 95 | % | 75 - 120 | | |

QUALITY CONTROL RESULTS

Quality Control Results

Client: Fehr-Graham & Associates

Job Number: 500-17124-1
Sdg Number: 500-17124-1

QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|---------------------------------|-------------------|--------------|---------------|--------|------------|
| GC/MS VOA | | | | | |
| Analysis Batch:500-58078 | | | | | |
| LCS 500-58078/23 | Lab Control Spike | T | Water | 8260B | |
| MB 500-58078/22 | Method Blank | T | Water | 8260B | |
| 500-17124-1 | 25560-1Q2009 | T | Water | 8260B | |
| 500-17124-1DL | 25560-1Q2009 | T | Water | 8260B | |

Report Basis

T = Total

Quality Control Results

Client: Fehr-Graham & Associates

Job Number: 500-17124-1

Sdg Number: 500-17124-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

| Lab Sample ID | Client Sample ID. | 12DCE %Rec | TOL %Rec | BFB %Rec | DBFM %Rec |
|------------------|-------------------|---------------|-------------|-------------|--------------|
| 500-17124-1 | 25560-1Q2009 | 109 | 95 | 103 | 100 |
| 500-17124-1 DL | 25560-1Q2009 DL | 107 | 94 | 101 | 95 |
| MB 500-58078/22 | | 103 | 94 | 102 | 93 |
| LCS 500-58078/23 | | 102 | 99 | 99 | 97 |

| Surrogate | Acceptance Limits |
|-------------------------------------|-------------------|
| 12DCE = 1,2-Dichloroethane-d4 (Sur) | 70-125 |
| TOL = Toluene-d8 (Sur) | 75-120 |
| BFB = 4-Bromofluorobenzene (Sur) | 75-120 |
| DBFM = Dibromofluoromethane | 75-120 |

Quality Control Results

Client: Fehr-Graham & Associates

Job Number: 500-17124-1
Sdg Number: 500-17124-1

Method Blank - Batch: 500-58078

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 500-58078/22
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 02/16/2009 1155
Date Prepared: 02/16/2009 1155

Analysis Batch: 500-58078
Prep Batch: N/A
Units: mg/L

Instrument ID: Agilent 6890N GC - 5975N
Lab File ID: 18m0216.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

| Analyte | Result | Qual | MDL | RL |
|------------------------------|---------|------|-------------------|--------|
| 1,1-Dichloroethene | <0.0010 | | 0.00022 | 0.0010 |
| Acetone | <0.0050 | | 0.0012 | 0.0050 |
| 1,1-Dichloroethane | <0.0010 | | 0.00018 | 0.0010 |
| 1,1,1-Trichloroethane | <0.0010 | | 0.00023 | 0.0010 |
| 1,2-Dichloroethane | <0.0010 | | 0.00022 | 0.0010 |
| Trichloroethene | <0.0010 | | 0.00020 | 0.0010 |
| Tetrachloroethene | <0.0010 | | 0.00014 | 0.0010 |
| m&p-Xylene | <0.0020 | | 0.00023 | 0.0020 |
| o-Xylene | <0.0010 | | 0.00012 | 0.0010 |
| Xylenes, Total | <0.0020 | | 0.00033 | 0.0020 |
| Surrogate | % Rec | | Acceptance Limits | |
| 1,2-Dichloroethane-d4 (Surr) | 103 | | 70 - 125 | |
| Toluene-d8 (Surr) | 94 | | 75 - 120 | |
| 4-Bromofluorobenzene (Surr) | 102 | | 75 - 120 | |
| Dibromofluoromethane | 93 | | 75 - 120 | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Fehr-Graham & Associates

Job Number: 500-17124-1
Sdg Number: 500-17124-1

Lab Control Spike - Batch: 500-58078

Method: 8260B
Preparation: 5030B

Lab Sample ID: LCS 500-58078/23

Analysis Batch: 500-58078

Instrument ID: Agilent 6890N GC - 5975N

Client Matrix: Water

Prep Batch: N/A

Lab File ID: 18s02136.D

Dilution: 1.0

Units: mg/L

Initial Weight/Volume: 10 mL

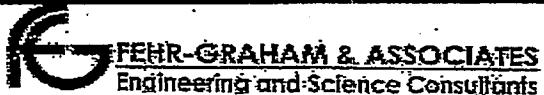
Date Analyzed: 02/16/2009 1220

Final Weight/Volume: 10 mL

Date Prepared: 02/16/2009 1220

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|------------------------------|--------------|--------|--------|-------------------|------|
| 1,1-Dichloroethene | 0.0250 | 0.0192 | 77 | 55 - 121 | |
| Acetone | 0.0250 | 0.0179 | 72 | 10 - 175 | |
| 1,1-Dichloroethane | 0.0250 | 0.0207 | 83 | 69 - 120 | |
| 1,1,1-Trichloroethane | 0.0250 | 0.0222 | 89 | 68 - 125 | |
| 1,2-Dichloroethane | 0.0250 | 0.0230 | 92 | 71 - 120 | |
| Trichloroethene | 0.0250 | 0.0225 | 90 | 69 - 120 | |
| Tetrachloroethene | 0.0250 | 0.0240 | 96 | 65 - 120 | |
| m&p-Xylene | 0.0500 | 0.0456 | 91 | 78 - 120 | |
| o-Xylene | 0.0250 | 0.0228 | 91 | 79 - 120 | |
| Xylenes, Total | 0.0750 | 0.0684 | 91 | 78 - 120 | |
| Surrogate | | % Rec | | Acceptance Limits | |
| 1,2-Dichloroethane-d4 (Surr) | | 102 | | 70 - 125 | |
| Toluene-d8 (Surr) | | 99 | | 75 - 120 | |
| 4-Bromofluorobenzene (Surr) | | 99 | | 75 - 120 | |
| Dibromofluoromethane | | 97 | | 75 - 120 | |

Calculations are performed before rounding to avoid round-off errors in calculated results.



Chain of Custody Record

500-17124

| Project Number : 09-233 Sauer Danfoss | | Deliver Report To : (check one) | | LAB USE ONLY | | Page <u>1</u> of <u>1</u> | | | | | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------------------------------------------------------------|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|-------|------|-------|----------------------------------------------------------------|--|--|
| Turnaround Time (circle one) : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush | | <input type="checkbox"/> <input checked="" type="checkbox"/> | | 221 East Main Street Suite 200 Freeport, IL 61032 815-235-7643 phone 815-235-4832 fax aschiesser@fehr-graham.com e-mail | | Login ID # _____ Login By _____ Lab Proj./ID # _____ Sample Temperature _____ Received on ice Y or N Cooler Sealed Y or N Comments: | | | | | | | | |
| For Rush Delivery, Specify Due Date: | | | | 1920 Daimler Road Rockford, IL 61112 815-394-4700 phone 815-394-4702 fax elarrell@fehr-graham.com e-mail | | Retain Samples <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | | | | | | | | |
| Delivery Method : (circle one) <input type="checkbox"/> Mail <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email | | | | Sampled By: Dan Stoehr/Fehr-Graham & Associates | | | | | | | | | | |
| Internal Routing To: ERIN JARRETT | | | | | | | | | | | | | | |
| SAMPLE IDENTIFICATION | DATE SAMPLED | TIME OF COLLECTION | Number and type of containers | | SAMPLE DESCRIPTION | ANALYSIS REQUESTED (Specify Method if applicable) | | | | | | | | |
| | | | COMP | GRAB | | HCl | NaOH | HNO3 | H2SO4 | NONE | OTHER | VOC's Method 8260 See Attached Sheet For Reporting Requests | | |
| 25560 - 1Q2009 | 2/13/2009 | <i>1pm</i> | X | 3 | | | | | | | | | | |
| | | | | | | | | | | | | | | |
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| Relinquished By: <i>Dan Stoehr</i> | Date: 2/13/09 | Time: 2pm | Received By: <i>JLA</i> | Date: 2/14/09 | Time: 1000 | | | | | | | | | |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: | | | | | | | | | |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: | | | | | | | | | |

500-7124

Fehr-Graham & Associates

Project: 09-233

Sample ID: 25560 - 1Q2009

Sample Characteristics: Groundwater Remediation Effluent

Sample to be collected on 2-13-09

Number of Samples: One (1)

FGA Contact for questions: Joel Zirkle (815-394-4700) or Ken Thompson (815-235-7643)

Analyze for VOC's Method 8260 but only report for the following constituents:

1. Acetone
2. 1,1-Dichloroethane
3. 1,1-Dichloroethene
4. 1,2-Dichloroethene
5. 1,1,1-Trichloroethane
6. Trichloroethene
7. Tetrachloroethene
8. Total Xylenes

I:\Documents\2009\09-233\GW Remediation System Sample Parameters.doc

Login Sample Receipt Check List

Client: Fehr-Graham & Associates

Job Number: 500-17124-1
SDG Number: 500-17124-1

Login Number: 17124

List Source: TestAmerica Chicago

Creator: Lunt, Jeff T

List Number: 1

| Question | T / F/ NA | Comment |
|----------------------------------------------------------------------------------|-----------|---------|
| Radioactivity either was not measured or, if measured, is at or below background | True | |
| The cooler's custody seal, if present, is intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | 2.7 |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| There are no discrepancies between the sample IDs on the containers and the COC. | True | |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| VOA sample vials do not have headspace or bubble ls <6mm (1/4") in diameter. | True | |
| If necessary, staff have been informed of any short hold time or quick TAT needs | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |

Fehr-Graham & Associates

Project: 09-233

Sample ID: 25560 - 1Q2009

Sample Characteristics: Groundwater Remediation Effluent

Sample to be collected on 2-13-09

Number of Samples: One (1)

FGA Contact for questions: Joel Zirkle (815-394-4700) or Ken Thompson (815-235-7643)

Analyze for VOC's Method 8260 but only report for the following constituents:

1. Acetone
2. 1,1-Dichloroethane
3. 1,1-Dichloroethene
4. 1,2-Dichloroethene
5. 1,1,1-Trichloroethane
6. Trichloroethene
7. Tetrachloroethene
8. Total Xylenes

Sauer-Danfoss (Ames, IA)
Groundwater Remediation Flow Data

| | |
|--------------------------------|---------|
| January 2009 Flow (Gals) | 3,795 |
| February 2009 Flow (Gals) | 71,449 |
| March 2009 Flow (Gals) | 6,088 |
| Total flow (gals) 1st Quarter: | 81,332 |
| | 904 gpd |

ANALYTICAL REPORT

February 25, 2009

Page 1 of 13

Work Order: 19B0451

| Report To | Work Order Information |
|---------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| Gerald Edgar Sauer-Danfoss 2800 E. 13th St. Ames, IA 50010 | Date Received: 02/11/2009 11:50AM Collector: Pryke Phone: (515) 239-6000 PO Number: |

Project: Quarterly Waste Pretreatment

Project Number: Pretreatment

| Analyte | Result | MRL | Batch | Method | Analyst | Analyzed | Qualifier |
|------------------------------|---------------------------------|-------|---------|-----------------|---------|---------------------------|-----------|
| 19B0451-01 | Front Parking Lot North Manhole | | | Matrix: Water | | Collected: 02/11/09 08:50 | |
| CBOD (5 day) | 261 mg/l | 4 | 1B91123 | SM 5210 B | JRP | 02/11/09 13:00 | |
| Cyanide, total | 0.020 mg/l | 0.007 | 1B91614 | SM 4500CN-E | DRB | 02/16/09 8:44 | |
| Chemical Oxygen Demand | 802 mg/l | 100 | 1B92010 | EPA 410.4 | WAS | 02/20/09 14:14 | |
| Nitrogen, Ammonia | 37.7 mg/l | 1.0 | 1B91704 | SM 4500-NH3 B,E | SAI | 02/17/09 14:30 | |
| Oil/Grease, animal/vegetable | 42 mg/l | 9 | 1B91808 | EPA 1664 | DRB | 02/18/09 8:58 | |
| Oil/Grease, petroleum | <9 mg/l | 9 | 1B91808 | EPA 1664 | DRB | 02/18/09 8:58 | |
| Oil and Grease | 46 mg/l | 9 | 1B91808 | EPA 1664 | DRB | 02/18/09 8:58 | |
| pH | 8.8 pH | 0.5 | 1B91026 | SM 4500 H+ B | TMR | 02/11/09 16:14 | I-03 |
| Nitrogen, Kjeldahl, total | 68 mg/l | 10 | 1B91916 | SM 4500-N ORG | SAI | 02/20/09 16:24 | |
| Solids, total suspended | 395 mg/l | 10 | 1B91805 | USGS I-3765-85 | LJG | 02/18/09 8:40 | |
| Molybdenum, total | 0.083 mg/l | 0.010 | 1B91210 | EPA 200.7 | RVV | 02/16/09 17:36 | |

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Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

February 25, 2009
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Work Order: 19B0451

Determination of Conventional Chemistry Parameters - Quality Control
Keystone Laboratories, Inc. - Newton

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--------------------------------|--------|-----------------|-------|-------------|---------------------------------------|------|-------------|-----|-----------|-------|
| Batch 18J0131 - 1J80152 | | | | | | | | | | |
| Cal Standard (18J0131-CAL1) | | | | | Prepared: 10/01/08 Analyzed: 10/03/08 | | | | | |
| Cyanide, total | 0.00 | | mg/l | | 0.00000 | | | | | |
| Cal Standard (18J0131-CAL2) | | | | | Prepared: 10/01/08 Analyzed: 10/03/08 | | | | | |
| Cyanide, total | 0.00 | | mg/l | | 0.0050000 | | | | | |
| Cal Standard (18J0131-CAL3) | | | | | Prepared: 10/01/08 Analyzed: 10/03/08 | | | | | |
| Cyanide, total | 0.00 | | mg/l | | 0.0200000 | | | | | |
| Cal Standard (18J0131-CAL4) | | | | | Prepared: 10/01/08 Analyzed: 10/03/08 | | | | | |
| Cyanide, total | 0.00 | | mg/l | | 0.0400000 | | | | | |
| Cal Standard (18J0131-CAL5) | | | | | Prepared: 10/01/08 Analyzed: 10/03/08 | | | | | |
| Cyanide, total | 0.00 | | mg/l | | 0.0800000 | | | | | |
| Cal Standard (18J0131-CAL6) | | | | | Prepared: 10/01/08 Analyzed: 10/03/08 | | | | | |
| Cyanide, total | 0.00 | | mg/l | | 0.160000 | | | | | |
| Batch 19B0622 - 1B90409 | | | | | | | | | | |
| Cal Standard (19B0622-CAL1) | | | | | Prepared & Analyzed: 02/06/09 | | | | | |
| Chemical Oxygen Demand | 2.70 | | mg/l | | 0.00000 | | | | | |
| Cal Standard (19B0622-CAL2) | | | | | Prepared & Analyzed: 02/06/09 | | | | | |
| Chemical Oxygen Demand | 8.82 | | mg/l | | 10.0000 | | 88.2 | | | |
| Cal Standard (19B0622-CAL3) | | | | | Prepared & Analyzed: 02/06/09 | | | | | |
| Chemical Oxygen Demand | 18.1 | | mg/l | | 20.0000 | | 90.7 | | | |

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Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

Work Order: 19B0451

February 25, 2009
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Determination of Conventional Chemistry Parameters - Quality Control
Keystone Laboratories, Inc. - Newton

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|----------------------------------|--------|-----------------|-------|-------------|---------------|------|-------------|--------|-----------|-------|
| Batch 19B0622 - 1B90409 | | | | | | | | | | |
| Cal Standard (19B0622-CAL4) | | | | | | | | | | |
| Chemical Oxygen Demand | 73.5 | | mg/l | | 75.0000 | | 98.0 | | | |
| Cal Standard (19B0622-CALS) | | | | | | | | | | |
| Chemical Oxygen Demand | 103 | | mg/l | | 100.000 | | 103 | | | |
| Cal Standard (19B0622-CAL6) | | | | | | | | | | |
| Chemical Oxygen Demand | 149 | | mg/l | | 150.000 | | 99.4 | | | |
| Calibration Check (19B0622-CCV1) | | | | | | | | | | |
| Chemical Oxygen Demand | 75.1 | | mg/l | | 75.0000 | | 100 | 80-120 | | |
| Batch 19B1606 - 1B91614 | | | | | | | | | | |
| Calibration Check (19B1606-CCV1) | | | | | | | | | | |
| Cyanide, total | 0.046 | | mg/l | | 0.0500000 | | 93.0 | 90-110 | | |
| Calibration Check (19B1606-CCV2) | | | | | | | | | | |
| Cyanide, total | 0.046 | | mg/l | | 0.0500000 | | 93.0 | 90-110 | | |
| Instrument Blank (19B1606-IBL1) | | | | | | | | | | |
| Cyanide, total | ND | 0.007 | mg/l | | | | | | | |
| Instrument Blank (19B1606-IBL2) | | | | | | | | | | |
| Cyanide, total | ND | 0.007 | mg/l | | | | | | | |
| Initial Cal Check (19B1606-ICV1) | | | | | | | | | | |
| Cyanide, total | 0.046 | | mg/l | | 0.0500000 | | 92.6 | 90-110 | | |

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Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

February 25, 2009
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Work Order: 19B0451

Determination of Conventional Chemistry Parameters - Quality Control
Keystone Laboratories, Inc. - Newton

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD RPD | Limit Notes |
|-----------------------------------------------------------------------------------|--------|-----------------|-------|-------------|---------------|------|-------------|---------|-------------|
| Batch 19B1606 - 1B91614 | | | | | | | | | |
| Initial Cal Check (19B1606-ICV2) Prepared & Analyzed: 02/16/09 | | | | | | | | | |
| Cyanide, total 0.046 mg/l 0.050000 92.6 90-110 | | | | | | | | | |
| Batch 19B2008 - 1B92010 | | | | | | | | | |
| Calibration Check (19B2008-CCV1) Prepared & Analyzed: 02/20/09 | | | | | | | | | |
| Chemical Oxygen Demand 78.3 mg/l 75.0000 104 80-120 | | | | | | | | | |
| Initial Cal Check (19B2008-ICV1) Prepared & Analyzed: 02/20/09 | | | | | | | | | |
| Chemical Oxygen Demand 78.3 mg/l 75.0000 104 80-120 | | | | | | | | | |
| Batch 1B91026 - Wet Chem Preparation | | | | | | | | | |
| Duplicate (1B91026-DUP1) Source: 19B0357-01 Prepared: 02/10/09 Analyzed: 02/11/09 | | | | | | | | | |
| pH | 8.4 | 0.5 | pH | | 8.4 | | | 0.00 | 10 |
| Reference (1B91026-SRM1) Prepared: 02/10/09 Analyzed: 02/11/09 | | | | | | | | | |
| pH | 7.0 | 0.5 | pH | 7.00000 | | 100 | 98.5-101.5 | | I-03 |
| Batch 1B91123 - General Prep Micro | | | | | | | | | |
| Blank (1B91123-BLK1) Prepared & Analyzed: 02/11/09 | | | | | | | | | |
| CBOD (5 day) | ND | 4 | mg/l | | | | | | |
| Duplicate (1B91123-DUP1) Source: 19B0481-02 Prepared & Analyzed: 02/11/09 | | | | | | | | | |
| CBOD (5 day) | 1800 | 4 | mg/l | 1990 | | | | 10.3 | 28 |

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Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

Work Order: 19B0451

February 25, 2009
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Determination of Conventional Chemistry Parameters - Quality Control
Keystone Laboratories, Inc. - Newton

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|-----------------------------------------------------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
| Batch 1B91123 - General Prep Micro | | | | | | | | | | |
| Duplicate (1B91123-DUP2) | | | | | | | | | | |
| CBOD (5 day) | | | | | | | | | | |
| Source: 19B0482-01 Prepared & Analyzed: 02/11/09 | | | | | | | | | | |
| 395 4 mg/l 417 5.42 28 | | | | | | | | | | |
| Reference (1B91123-SRM1) | | | | | | | | | | |
| CBOD (5 day) | | | | | | | | | | |
| 416 4 mg/l 416.900 99.8 84.6-115.4 | | | | | | | | | | |
| Batch 1B91614 - Wet Chem Preparation | | | | | | | | | | |
| Blank (1B91614-BLK1) | | | | | | | | | | |
| Prepared & Analyzed: 02/16/09 | | | | | | | | | | |
| Cyanide, total | | | | | | | | | | |
| ND 0.007 mg/l | | | | | | | | | | |
| LCS (1B91614-BS1) | | | | | | | | | | |
| Prepared & Analyzed: 02/16/09 | | | | | | | | | | |
| Cyanide, total | | | | | | | | | | |
| 0.019 0.007 mg/l 0.0200000 96.7 63-138 | | | | | | | | | | |
| Matrix Spike (1B91614-MS1) | | | | | | | | | | |
| Source: 19B0150-01 Prepared & Analyzed: 02/16/09 | | | | | | | | | | |
| Cyanide, total | | | | | | | | | | |
| 0.042 0.007 mg/l 0.0200000 0.021 103 60-140 | | | | | | | | | | |
| Matrix Spike Dup (1B91614-MSD1) | | | | | | | | | | |
| Source: 19B0150-01 Prepared & Analyzed: 02/16/09 | | | | | | | | | | |
| Cyanide, total | | | | | | | | | | |
| 0.048 0.007 mg/l 0.0200000 0.021 130 60-140 12.0 24 | | | | | | | | | | |
| Batch 1B91704 - Wet Chem Preparation | | | | | | | | | | |
| Blank (1B91704-BLK1) | | | | | | | | | | |
| Prepared & Analyzed: 02/17/09 | | | | | | | | | | |
| Nitrogen, Ammonia | | | | | | | | | | |
| ND 1.0 mg/l | | | | | | | | | | |
| LCS (1B91704-BS1) | | | | | | | | | | |
| Prepared & Analyzed: 02/17/09 | | | | | | | | | | |
| Nitrogen, Ammonia | | | | | | | | | | |
| 9.57 1.0 mg/l 10.0000 95.7 83-110 | | | | | | | | | | |

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Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

February 25, 2009
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Work Order: 19B0451

Determination of Conventional Chemistry Parameters - Quality Control
Keystone Laboratories, Inc. - Newton

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD RPD | RPD Limit | Notes |
|----------------------------------------------------------------------------------------|--------|-----------------|-------|-------------|---------------|------|-------------|---------|-----------|-------|
| Batch 1B91704 - Wet Chem Preparation | | | | | | | | | | |
| Duplicate (1B91704-DUP1) Source: 19B0431-01 Prepared & Analyzed: 02/17/09 | | | | | | | | | | |
| Nitrogen, Ammonia 9.71 1.0 mg/l 9.85 1.43 10 | | | | | | | | | | |
| Matrix Spike (1B91704-MS1) Source: 19B0412-02 Prepared & Analyzed: 02/17/09 | | | | | | | | | | |
| Nitrogen, Ammonia 15.6 1.0 mg/l 10.0000 5.91 97.1 73-116 | | | | | | | | | | |
| Batch 1B91805 - Wet Chem Preparation | | | | | | | | | | |
| Blank (1B91805-BLK1) Prepared & Analyzed: 02/18/09 | | | | | | | | | | |
| Solids, total suspended ND 1 mg/l | | | | | | | | | | |
| LCS (1B91805-BS1) Prepared & Analyzed: 02/18/09 | | | | | | | | | | |
| Solids, total suspended 14.9 1 mg/l 15.0000 99.3 75-116 | | | | | | | | | | |
| Duplicate (1B91805-DUP1) Source: 19B0597-01 Prepared & Analyzed: 02/18/09 | | | | | | | | | | |
| Solids, total suspended 219 10 mg/l 229 4.46 30 | | | | | | | | | | |
| Batch 1B91808 - Wet Chem Preparation | | | | | | | | | | |
| Blank (1B91808-BLK1) Prepared & Analyzed: 02/18/09 | | | | | | | | | | |
| Oil and Grease ND 4 mg/l | | | | | | | | | | |
| Oil/Grease, animal/vegetable ND 4 " | | | | | | | | | | |
| Oil/Grease, petroleum ND 4 " | | | | | | | | | | |
| LCS (1B91808-BS1) Prepared & Analyzed: 02/18/09 | | | | | | | | | | |
| Oil and Grease 38 4 mg/l 40.0000 94.0 78-114 | | | | | | | | | | |
| Oil/Grease, animal/vegetable 18 4 " 20.0000 92.0 64-132 | | | | | | | | | | |
| Oil/Grease, petroleum 19 4 " 20.0000 96.0 64-132 | | | | | | | | | | |

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Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

Work Order: 19B0451

February 25, 2009
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Determination of Conventional Chemistry Parameters - Quality Control
Keystone Laboratories, Inc. - Newton

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------------------------------------------------------------|--------|-----------------|-------|-------------|---------------|------|-------------|------|-----------|-------|
| Batch 1B91808 - Wet Chem Preparation | | | | | | | | | | |
| Matrix Spike (1B91808-MS1) | | | | | | | | | | |
| Source: 19B0477-01 Prepared & Analyzed: 02/18/09 | | | | | | | | | | |
| Oil and Grease | 43 | 4 | mg/l | 39.8804 | 4 | 99.0 | 78-114 | | | |
| Oil/Grease, animal/vegetable | 24 | 4 | " | 19.9402 | 2 | 108 | 64-132 | | | |
| Oil/Grease, petroleum | 20 | 4 | " | 19.9402 | 1 | 90.5 | 64-132 | | | |
| Matrix Spike Dup (1B91808-MSD1) | | | | | | | | | | |
| Source: 19B0477-01 Prepared & Analyzed: 02/18/09 | | | | | | | | | | |
| Oil and Grease | 47 | 4 | mg/l | 39.9600 | 4 | 107 | 78-114 | 7.29 | 18 | |
| Oil/Grease, animal/vegetable | 26 | 4 | " | 19.9800 | 2 | 119 | 64-132 | 9.00 | 34 | |
| Oil/Grease, petroleum | 21 | 4 | " | 19.9800 | 1 | 95.5 | 64-132 | 5.17 | 34 | |
| Batch 1B91916 - Wet Chem Preparation | | | | | | | | | | |
| Blank (1B91916-BLK1) | | | | | | | | | | |
| Prepared: 02/19/09 Analyzed: 02/20/09 | | | | | | | | | | |
| Nitrogen, Kjeldahl, total | ND | 10 | mg/l | | | | | | | |
| LCS (1B91916-BS1) | | | | | | | | | | |
| Prepared: 02/19/09 Analyzed: 02/20/09 | | | | | | | | | | |
| Nitrogen, Kjeldahl, total | 114 | 10 | mg/l | 120,000 | | 94.7 | 90-110 | | | |
| Matrix Spike (1B91916-MS1) | | | | | | | | | | |
| Source: 19B0468-01 Prepared: 02/19/09 Analyzed: 02/20/09 | | | | | | | | | | |
| Nitrogen, Kjeldahl, total | 110 | 10 | mg/l | 120,000 | ND | 91.9 | 77-119 | | | |
| Matrix Spike Dup (1B91916-MSD1) | | | | | | | | | | |
| Source: 19B0468-01 Prepared: 02/19/09 Analyzed: 02/20/09 | | | | | | | | | | |
| Nitrogen, Kjeldahl, total | 114 | 10 | mg/l | 120,000 | ND | 94.7 | 77-119 | 3.02 | 10 | |
| Batch 1B92010 - Wet Chem Preparation | | | | | | | | | | |
| Blank (1B92010-BLK1) | | | | | | | | | | |
| Prepared & Analyzed: 02/20/09 | | | | | | | | | | |
| Chemical Oxygen Demand | ND | 10 | mg/l | | | | | | | |

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Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

Work Order: 19B0451

February 25, 2009
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Determination of Conventional Chemistry Parameters - Quality Control
Keystone Laboratories, Inc. - Newton

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|-----------------------------------------------------------------------------------------|--------|-----------------|-------|-------------|---------------|------|-------------|-------|-----------|-------|
| Batch 1B92010 - Wet Chem Preparation | | | | | | | | | | |
| LCS (1B92010-BS1) Prepared & Analyzed: 02/20/09 | | | | | | | | | | |
| Chemical Oxygen Demand | 76.4 | 10 | mg/l | 75.0000 | | 102 | 74-110 | | | |
| Matrix Spike (1B92010-MS1) Source: 19B0821-01 Prepared & Analyzed: 02/20/09 | | | | | | | | | | |
| Chemical Oxygen Demand | 117 | 10 | mg/l | 42.8571 | 84.4 | 77.0 | 60-140 | | | |
| Matrix Spike Dup (1B92010-MSD1) Source: 19B0821-01 Prepared & Analyzed: 02/20/09 | | | | | | | | | | |
| Chemical Oxygen Demand | 118 | 10 | mg/l | 42.8571 | 84.4 | 78.8 | 60-140 | 0.625 | 26 | |

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Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

Work Order: 19B0451

February 25, 2009
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Determination of Total Metals - Quality Control
Keystone Laboratories, Inc. - Newton

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|------------------------------------|---------|-----------------|-------|-------------|---------------|------|-------------|--------|-----------|-------|
| Batch 19B1613 - 1B91324 | | | | | | | | | | |
| Calibration Blank (19B1613-CCB1) | | | | | | | | | | |
| Molybdenum, total | 0.00310 | | mg/l | | 0.00000 | | | | | |
| Calibration Blank (19B1613-CCB2) | | | | | | | | | | |
| Molybdenum, total | 0.00300 | | mg/l | | 0.00000 | | | | | |
| Calibration Blank (19B1613-CCB3) | | | | | | | | | | |
| Molybdenum, total | 0.00280 | | mg/l | | 0.00000 | | | | | |
| Calibration Check (19B1613-CCV1) | | | | | | | | | | |
| Molybdenum, total | 0.974 | | mg/l | | 1.00000 | | 97.4 | 90-110 | | |
| Calibration Check (19B1613-CCV2) | | | | | | | | | | |
| Molybdenum, total | 0.967 | | mg/l | | 1.00000 | | 96.7 | 90-110 | | |
| Calibration Check (19B1613-CCV3) | | | | | | | | | | |
| Molybdenum, total | 0.987 | | mg/l | | 1.00000 | | 98.7 | 90-110 | | |
| High Cal Check (19B1613-HCV2) | | | | | | | | | | |
| Molybdenum, total | 19.1 | | mg/l | | 20.0000 | | 95.4 | 90-110 | | |
| Initial Cal Blank (19B1613-ICB1) | | | | | | | | | | |
| Molybdenum, total | 0.00370 | | mg/l | | 0.00000 | | | | | |
| Initial Cal Check (19B1613-ICV1) | | | | | | | | | | |
| Molybdenum, total | 0.983 | | mg/l | | 1.00000 | | 98.3 | 90-110 | | |
| Secondary Cal Check (19B1613-SCV1) | | | | | | | | | | |
| Molybdenum, total | 0.495 | | mg/l | | 0.500000 | | 99.0 | 90-110 | | |

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Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

Work Order: 19B0451

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Determination of Total Metals - Quality Control
Keystone Laboratories, Inc. - Newton

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--------------------------------------------|--------|-----------------|-------|-------------|---------------|------|-------------|------|-----------|-------|
| Batch 1B91210 - EPA 3010A Total ICP | | | | | | | | | | |
| Blank (1B91210-BLK1) | | | | | | | | | | |
| Molybdenum, total | ND | 0.010 | mg/l | | | | | | | |
| LCS (1B91210-BS1) | | | | | | | | | | |
| Molybdenum, total | 0.205 | 0.010 | mg/l | 0.200000 | | 102 | 84-112 | | | |
| Matrix Spike (1B91210-MS1) | | | | | | | | | | |
| Molybdenum, total | 1.24 | 0.010 | mg/l | 0.200000 | 0.996 | 121 | 73-116 | | | QM-4X |
| Matrix Spike Dup (1B91210-MSD1) | | | | | | | | | | |
| Molybdenum, total | 1.22 | 0.010 | mg/l | 0.200000 | 0.996 | 111 | 73-116 | 1.63 | 13 | |
| Post Spike (1B91210-PS1) | | | | | | | | | | |
| Molybdenum, total | 1.17 | | mg/l | 0.196078 | 0.977 | 99.1 | 88-116 | | | |

ND = Non Detect; REC = Recovery; RPD = Relative Percent Difference

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MEMBER
ACIL

Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

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Certified Analyses included in this Report

| Method/Matrix | Analyte | Certifications |
|--------------------------|------------------------------|---------------------|
| EPA 1684 In Water | Oil and Grease | IA-NT, KS-NT, NELAC |
| | Oil/Grease, animal/vegetable | IA-NT, KS-NT, NELAC |
| | Oil/Grease, petroleum | IA-NT, KS-NT, NELAC |
| EPA 200.7 In Water | Molybdenum, total | IA-NT |
| EPA 410.4 In Water | Chemical Oxygen Demand | IA-NT, KS-NT, NELAC |
| SM 4600 H+ B In Water | pH | IA-NT, KS-NT, NELAC |
| SM 4600CN-E In Water | Cyanide, total | IA-NT, KS-NT, NELAC |
| SM 4500-N ORG In Water | Nitrogen, Kjeldahl, total | IA-NT, KS-NT, NELAC |
| SM 4500-NH3 B,E In Water | Nitrogen, Ammonia | IA-NT, KS-NT, NELAC |
| SM 5210 B In Water | CBOD (5 day) | IA-NT |
| USGS I-3785-85 In Water | Solids, total suspended | IA-NT |

| Code | Description | Number | Expires |
|-------|---------------------------------------------------|---------|------------|
| IA-NT | Iowa Department of Natural Resources | 095 | 02/01/2010 |
| KS-NT | Kansas Department of Health and Environment | E-10287 | 07/31/2009 |
| NELAC | New Jersey Department of Environmental Protection | IA001 | 06/30/2009 |

Notes and Definitions

- I-03 Analyte required to be analyzed within 15 minutes of sampling. Analysis performed upon receipt of sample at laboratory.
- I-03 Analyte required to be analyzed within 15 minutes of sampling. Analysis performed upon receipt of sample at laboratory.
- QM-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration.

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Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

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End of Report

Sue Thompson

Keystone Laboratories, Inc.

Sue Thompson
Project Manager I

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted. MRL = Method Reporting Limit.

Phone 641-792-8451

600 East 17th Street South
Newton, IA 50208

Fax 641-792-7989



MEMBER
ACL

Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

Work Order: 19B0451

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| CHAIN OF CUSTODY RECORD | | | | | | | |
|-------------------------------------------------------------------------|-----------------------------------|----------------------------------------------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------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| Keystone LABORATORIES, INC. | | U3-01185 600 East 17th Street South Newton, IA 50208 841-792-8451 | | Page 1 of 1 Printed: 2/22/2009 2:53:02 PM www.keystonelabs.com | | | |
| SITE INFORMATION | | REPORT TO | | INVOCATE TO | | | |
| Sample: Pycz Project: Quarterly Waste Pretreatment Pretreatment: | | Gerald Edgar Sauer-Danfoss 2800 E. 13th St. Ames, IA 50010 | | Gerald Edgar Sauer-Danfoss 2800 E. 13th St. Ames, IA 50010 | | | |
| SPECIAL INSTRUCTIONS | | LAB USE ONLY | | Custody Seal | | | |
| Turn Around Time: <input checked="" type="checkbox"/> RUSH, need by 1/1 | | Work Order: 19B0451 Temperature: Turn-Caplex: No | | <input checked="" type="checkbox"/> Container intact <input checked="" type="checkbox"/> COCs/Labels Agree <input checked="" type="checkbox"/> Preservation Confirmed <input checked="" type="checkbox"/> Received on ice | | | |
| Number | Sample Identification / Client ID | Matrix | Sample Type | Date | Time | Number of Containers | Analyses |
| 01-001 | Front Parking Lot North Health | Water | | 3/11/01 | 8:00 AM | 1 | 100-1001 100-1002 100-1003 100-1004 100-1005 100-1006 100-1007 100-1008 100-1009 100-1010 100-1011 100-1012 100-1013 100-1014 100-1015 100-1016 100-1017 100-1018 100-1019 100-1020 100-1021 100-1022 100-1023 100-1024 100-1025 100-1026 100-1027 100-1028 100-1029 100-1030 100-1031 100-1032 100-1033 100-1034 100-1035 100-1036 100-1037 100-1038 100-1039 100-1040 100-1041 100-1042 100-1043 100-1044 100-1045 100-1046 100-1047 100-1048 100-1049 100-1050 100-1051 100-1052 100-1053 100-1054 100-1055 100-1056 100-1057 100-1058 100-1059 100-1060 100-1061 100-1062 100-1063 100-1064 100-1065 100-1066 100-1067 100-1068 100-1069 100-1070 100-1071 100-1072 100-1073 100-1074 100-1075 100-1076 100-1077 100-1078 100-1079 100-1080 100-1081 100-1082 100-1083 100-1084 100-1085 100-1086 100-1087 100-1088 100-1089 100-1090 100-1091 100-1092 100-1093 100-1094 100-1095 100-1096 100-1097 100-1098 100-1099 100-1100 100-1101 100-1102 100-1103 100-1104 100-1105 100-1106 100-1107 100-1108 100-1109 100-1110 100-1111 100-1112 100-1113 100-1114 100-1115 100-1116 100-1117 100-1118 100-1119 100-1120 100-1121 100-1122 100-1123 100-1124 100-1125 100-1126 100-1127 100-1128 100-1129 100-1130 100-1131 100-1132 100-1133 100-1134 100-1135 100-1136 100-1137 100-1138 100-1139 100-1140 100-1141 100-1142 100-1143 100-1144 100-1145 100-1146 100-1147 100-1148 100-1149 100-1150 100-1151 100-1152 100-1153 100-1154 100-1155 100-1156 100-1157 100-1158 100-1159 100-1160 100-1161 100-1162 100-1163 100-1164 100-1165 100-1166 100-1167 100-1168 100-1169 100-1170 100-1171 100-1172 100-1173 100-1174 100-1175 100-1176 100-1177 100-1178 100-1179 100-1180 100-1181 100-1182 100-1183 100-1184 100-1185 100-1186 100-1187 100-1188 100-1189 100-1190 100-1191 100-1192 100-1193 100-1194 100-1195 100-1196 100-1197 100-1198 100-1199 100-1200 100-1201 100-1202 100-1203 100-1204 100-1205 100-1206 100-1207 100-1208 100-1209 100-1210 100-1211 100-1212 100-1213 100-1214 100-1215 100-1216 100-1217 100-1218 100-1219 100-1220 100-1221 100-1222 100-1223 100-1224 100-1225 100-1226 100-1227 100-1228 100-1229 100-1230 100-1231 100-1232 100-1233 100-1234 100-1235 100-1236 100-1237 100-1238 100-1239 100-1240 100-1241 100-1242 100-1243 100-1244 100-1245 100-1246 100-1247 100-1248 100-1249 100-1250 100-1251 100-1252 100-1253 100-1254 100-1255 100-1256 100-1257 100-1258 100-1259 100-1260 100-1261 100-1262 100-1263 100-1264 100-1265 100-1266 100-1267 100-1268 100-1269 100-1270 100-1271 100-1272 100-1273 100-1274 100-1275 100-1276 100-1277 100-1278 100-1279 100-1280 100-1281 100-1282 100-1283 100-1284 100-1285 100-1286 100-1287 100-1288 100-1289 100-1290 100-1291 100-1292 100-1293 100-1294 100-1295 100-1296 100-1297 100-1298 100-1299 100-1300 100-1301 100-1302 100-1303 100-1304 100-1305 100-1306 100-1307 100-1308 100-1309 100-1310 100-1311 100-1312 100-1313 100-1314 100-1315 100-1316 100-1317 100-1318 100-1319 100-1320 100-1321 100-1322 100-1323 100-1324 100-1325 100-1326 100-1327 100-1328 100-1329 100-1330 100-1331 100-1332 100-1333 100-1334 100-1335 100-1336 100-1337 100-1338 100-1339 100-1340 100-1341 100-1342 100-1343 100-1344 100-1345 100-1346 100-1347 100-1348 100-1349 100-1350 100-1351 100-1352 100-1353 100-1354 100-1355 100-1356 100-1357 100-1358 100-1359 100-1360 100-1361 100-1362 100-1363 100-1364 100-1365 100-1366 100-1367 100-1368 100-1369 100-1370 100-1371 100-1372 100-1373 100-1374 100-1375 100-1376 100-1377 100-1378 100-1379 100-1380 100-1381 100-1382 100-1383 100-1384 100-1385 100-1386 100-1387 100-1388 100-1389 100-1390 100-1391 100-1392 100-1393 100-1394 100-1395 100-1396 100-1397 100-1398 100-1399 100-1400 100-1401 100-1402 100-1403 100-1404 100-1405 100-1406 100-1407 100-1408 100-1409 100-1410 100-1411 100-1412 100-1413 100-1414 100-1415 100-1416 100-1417 100-1418 100-1419 100-1420 100-1421 100-1422 100-1423 100-1424 100-1425 100-1426 100-1427 100-1428 100-1429 100-1430 100-1431 100-1432 100-1433 100-1434 100-1435 100-1436 100-1437 100-1438 100-1439 100-1440 100-1441 100-1442 100-1443 100-1444 100-1445 100-1446 100-1447 100-1448 100-1449 100-1450 100-1451 100-1452 100-1453 100-1454 100-1455 100-1456 100-1457 100-1458 100-1459 100-1460 100-1461 100-1462 100-1463 100-1464 100-1465 100-1466 100-1467 100-1468 100-1469 100-1470 100-1471 100-1472 100-1473 100-1474 100-1475 100-1476 100-1477 100-1478 100-1479 100-1480 100-1481 100-1482 100-1483 100-1484 100-1485 100-1486 100-1487 100-1488 100-1489 100-1490 100-1491 100-1492 100-1493 100-1494 100-1495 100-1496 100-1497 100-1498 100-1499 100-1500 100-1501 100-1502 100-1503 100-1504 100-1505 100-1506 100-1507 100-1508 100-1509 100-1510 100-1511 100-1512 100-1513 100-1514 100-1515 100-1516 100-1517 100-1518 100-1519 100-1520 100-1521 100-1522 100-1523 100-1524 100-1525 100-1526 100-1527 100-1528 100-1529 100-1530 100-1531 100-1532 100-1533 100-1534 100-1535 100-1536 100-1537 100-1538 100-1539 100-1540 100-1541 100-1542 100-1543 100-1544 100-1545 100-1546 100-1547 100-1548 100-1549 100-1550 100-1551 100-1552 100-1553 100-1554 100-1555 100-1556 100-1557 100-1558 100-1559 100-1560 100-1561 100-1562 100-1563 100-1564 100-1565 100-1566 100-1567 100-1568 100-1569 100-1570 100-1571 100-1572 100-1573 100-1574 100-1575 100-1576 100-1577 100-1578 100-1579 100-1580 100-1581 100-1582 100-1583 100-1584 100-1585 100-1586 100-1587 100-1588 100-1589 100-1590 100-1591 100-1592 100-1593 100-1594 100-1595 100-1596 100-1597 100-1598 100-1599 100-1500 100-1501 100-1502 100-1503 100-1504 100-1505 100-1506 100-1507 100-1508 100-1509 100-1510 100-1511 100-1512 100-1513 100-1514 100-1515 100-1516 100-1517 100-1518 100-1519 100-1520 100-1521 100-1522 100-1523 100-1524 100-1525 100-1526 100-1527 100-1528 100-1529 100-1530 100-1531 100-1532 100-1533 100-1534 100-1535 100-1536 100-1537 100-1538 100-1539 100-1540 100-1541 100-1542 100-1543 100-1544 100-1545 100-1546 100-1547 100-1548 100-1549 100-1550 100-1551 100-1552 100-1553 100-1554 100-1555 100-1556 100-1557 100-1558 100-1559 100-1560 100-1561 100-1562 100-1563 100-1564 100-1565 100-1566 100-1567 100-1568 100-1569 100-1570 100-1571 100-1572 100-1573 100-1574 100-1575 100-1576 100-1577 100-1578 100-1579 100-1580 100-1581 100-1582 100-1583 100-1584 100-1585 100-1586 100-1587 100-1588 100-1589 100-1590 100-1591 100-1592 100-1593 100-1594 100-1595 100-1596 100-1597 100-1598 100-1599 100-1500 100-1501 100-1502 100-1503 100-1504 100-1505 100-1506 100-1507 100-1508 100-1509 100-1510 100-1511 100-1512 100-1513 100-1514 100-1515 100-1516 100-1517 100-1518 100-1519 100-1520 100-1521 100-1522 100-1523 100-1524 100-1525 100-1526 100-1527 100-1528 100-1529 100-1530 100-1531 100-1532 100-1533 100-1534 100-1535 100-1536 100-1537 100-1538 100-1539 100-1540 100-1541 100-1542 100-1543 100-1544 100-1545 100-1546 100-1547 100-1548 100-1549 100-1550 100-1551 100-1552 100-1553 100-1554 100-1555 100-1556 100-1557 100-1558 100-1559 100-1560 100-1561 100-1562 100-1563 100-1564 100-1565 100-1566 100-1567 100-1568 100-1569 100-1570 100-1571 100-1572 100-1573 100-1574 100-1575 100-1576 100-1577 100-1578 100-1579 100-1580 100-1581 100-1582 100-1583 100-1584 100-1585 100-1586 100-1587 100-1588 100-1589 100-1590 100-1591 100-1592 100-1593 100-1594 100-1595 100-1596 100-1597 100-1598 100-1599 100-1500 100-1501 100-1502 100-1503 100-1504 100-1505 100-1506 100-1507 100-1508 100-1509 100-1510 100-1511 100-1512 100-1513 100-1514 100-1515 100-1516 100-1517 100-1518 100-1519 100-1520 100-1521 100-1522 100-1523 100-1524 100-1525 100-1526 100-1527 100-1528 100-1529 100-1530 100-1531 100-1532 100-1533 100-1534 100-1535 100-1536 100-1537 100-1538 100-1539 100-1540 100-1541 100-1542 100-1543 100-1544 100-1545 100-1546 100-1547 100-1548 100-1549 100-1550 100-1551 100-1552 100-1553 100-1554 100-1555 100-1556 100-1557 100-1558 100-1559 100-1560 100-1561 100-1562 100-1563 100-1564 100-1565 100-1566 100-1567 100-1568 100-1569 100-1570 100-1571 100-1572 100-1573 100-1574 100-1575 100-1576 100-1577 100-1578 100-1579 100-1580 100-1581 100-1582 100-1583 100-1584 100-1585 100-1586 100-1587 100-1588 100-1589 100-1590 100-1591 100-1592 100-1593 100-1594 100-1595 100-1596 100-1597 100-1598 100-1599 100-1500 100-1501 100-1502 100-1503 100-1504 100-1505 100-1506 100-1507 100-1508 100-1509 100-1510 100-1511 100-1512 100-1513 100-1514 100-1515 100-1516 100-1517 100-1518 100-1519 100-1520 100-1521 100-1522 100-1523 100-1524 100-1525 100-1526 100-1527 100-1528 100-1529 100-1530 100-1531 100-1532 100-1533 100-1534 100-1535 100-1536 100-1537 100-1538 100-1539 100-1540 100-1541 100-1542 100-1543 100-1544 100-1545 100-1546 100-1547 100-1548 100-1549 100-1550 100-1551 100-1552 100-1553 100-1554 100-1555 100-1556 100-1557 100-1558 100-1559 100-1560 100-1561 100-1562 100-1563 100-1564 100-1565 100-1566 100-1567 100-1568 100-1569 100-1570 100-1571 100-1572 100-1573 100-1574 100-1575 100-1576 100-1577 100-1578 100-1579 100-1580 100-1581 100-1582 100-1583 100-1584 100-1585 100-1586 100-1587 100-1588 100-1589 100-1590 100-1591 100-1592 100-1593 100-1594 100-1595 100-1596 100-1597 100-1598 100-1599 100-1500 100-1501 100-1502 100-1503 100-1504 100-1505 100-1506 100-1507 100-1508 100-1509 100-1510 100-1511 100-1512 100-1513 100-1514 100-1515 100-1516 100-1517 100-1518 100-1519 100-1520 100-1521 100-1 |

2784

SAMPLER ID# 1182518539 09:38 4-MAR-09
Hardware: A1 Software: 2.31
***** PROGRAM SETTINGS *****

SITE DESCRIPTION:
"USDA"

UNITS SELECTED:
FLOW RATE: gpm
FLOW VOLUME: gal

BUBBLER MODULE:
FLOW-INSERT
8"
V-NOTCH

1, 9.80 lit BTLS

20 ft SUCTION LINE

PACING:
FLOW, EVERY
500.0 gal

COMPOSITE:

120 SAMPLES

70 ml SAMPLES

NO DELAY TO START

24 HOURS RUN TIME

SAMPLER ID# 1182518539 09:38 4-MAR-09
Hardware: A1 Software: 2.31
***** SAMPLING RESULTS *****
SITE: USDA"
Program Started at 09:24 TU 3-MAR-09
Nominal Sample Volume = 70 ml

| SAMPLE | BOTTLE | TIME | SOURCE | ERROR | COUNT | LIQUID |
|--------|--------|-------|--------|---------|-------|--------|
| | | | | | TO | |
| | | 09:24 | PGM | ENABLED | | |
| 1 | 1 | 09:45 | F | | 428 | |
| 2 | 1 | 10:05 | F | | 424 | |
| 3 | 1 | 10:24 | F | | 424 | |
| 4 | 1 | 10:44 | F | | 421 | |

2784

| | | | | |
|----|---|-------|---|-----|
| 5 | 1 | 11:04 | F | 423 |
| 6 | 1 | 11:26 | F | 420 |
| 7 | 1 | 11:41 | F | 419 |
| 8 | 1 | 12:01 | F | 421 |
| 9 | 1 | 12:15 | F | 421 |
| 10 | 1 | 12:32 | F | 420 |
| 11 | 1 | 12:48 | F | 419 |
| 12 | 1 | 13:07 | F | 419 |
| 13 | 1 | 13:28 | F | 419 |
| 14 | 1 | 13:53 | F | 418 |
| 15 | 1 | 14:16 | F | 418 |
| 16 | 1 | 14:32 | F | 416 |
| 17 | 1 | 14:45 | F | 418 |
| 18 | 1 | 14:59 | F | 417 |
| 19 | 1 | 15:11 | F | 418 |
| 20 | 1 | 15:24 | F | 418 |
| 21 | 1 | 15:35 | F | 417 |
| 22 | 1 | 15:49 | F | 419 |
| 23 | 1 | 16:07 | F | 418 |
| 24 | 1 | 16:22 | F | 419 |
| 25 | 1 | 16:36 | F | 418 |
| 26 | 1 | 16:51 | F | 417 |
| 27 | 1 | 17:09 | F | 418 |
| 28 | 1 | 17:32 | F | 418 |
| 29 | 1 | 17:57 | F | 419 |
| 30 | 1 | 18:22 | F | 417 |
| 31 | 1 | 19:03 | F | 417 |
| 32 | 1 | 19:48 | F | 411 |
| 33 | 1 | 20:32 | F | 407 |
| 34 | 1 | 20:50 | F | 407 |
| 35 | 1 | 20:59 | F | 407 |
| 36 | 1 | 21:39 | F | 404 |
| 37 | 1 | 21:42 | F | 393 |
| 38 | 1 | 21:45 | F | 399 |
| 39 | 1 | 21:49 | F | 401 |
| 40 | 1 | 21:54 | F | 394 |
| 41 | 1 | 21:57 | F | 393 |
| 42 | 1 | 22:00 | F | 393 |
| 43 | 1 | 22:03 | F | 411 |
| 44 | 1 | 22:16 | F | 413 |
| 45 | 1 | 22:30 | F | 416 |
| 46 | 1 | 23:21 | F | |

WE 04-MAR-09

| | | | | |
|----|---|-------|------|-----|
| 47 | 1 | 00:09 | F | 411 |
| 48 | 1 | 00:55 | F | 411 |
| 49 | 1 | 01:46 | F | 413 |
| 50 | 1 | 02:34 | F | 402 |
| 51 | 1 | 03:17 | F | 411 |
| 52 | 1 | 04:00 | F | 408 |
| 53 | 1 | 04:42 | F | 412 |
| 54 | 1 | 05:30 | F | 411 |
| 55 | 1 | 06:22 | F | 411 |
| 56 | 1 | 07:11 | F | 402 |
| 57 | 1 | 07:41 | F | 401 |
| 58 | 1 | 08:05 | F | 407 |
| 59 | 1 | 08:34 | F | 408 |
| 60 | 1 | 08:59 | F | 409 |
| 61 | 1 | 09:15 | F NM | * |

09:24 PGM DONE 04-MAR

SOURCE F ==> FLOW
 ERROR NM ==> NO MORE LIQUID!

SAMPLER ID# 1182518539 09:39 4-MAR-09

Hardware: A1 Software: 2.31

BUBBLER MODULE: 1160556497

Hardware: A0 Software: 1.07

***** COMBINED RESULTS *****

SITE: USDA"

Program Started at 09:24 TU 3-MAR-09

Nominal Sample Volume = 70 ml.

| SAMPLE | BOTTLE | TIME | LEVEL ft | FLOW RATE gpm | TOTAL FLOW gal |
|--------|--------|-------|-------------|---------------------|----------------------|
| 1 | 1 | 09:45 | 0.466 | 36.17 | 0000000500 |
| 2 | 1 | 10:05 | 0.413 | 21.75 | 0000001000 |
| 3 | 1 | 10:24 | 0.430 | 25.61 | 0000001500 |
| 4 | 1 | 10:44 | 0.466 | 36.17 | 0000002000 |
| 5 | 1 | 11:04 | 0.387 | 16.39 | 0000002500 |
| 6 | 1 | 11:26 | 0.387 | 16.39 | 0000003000 |
| 7 | 1 | 11:41 | 0.413 | 21.75 | 0000003500 |
| 8 | 1 | 12:01 | 0.443 | 28.99 | 0000004000 |
| 9 | 1 | 12:15 | 0.459 | 33.96 | 0000004500 |
| 10 | 1 | 12:32 | 0.502 | 47.11 | 0000005000 |
| 11 | 1 | 12:48 | 0.443 | 28.99 | 0000005500 |
| 12 | 1 | 13:07 | 0.466 | 36.17 | 0000006000 |
| 13 | 1 | 13:28 | 0.486 | 42.37 | 0000006500 |
| 14 | 1 | 13:53 | 0.394 | 17.64 | 0000007000 |
| 15 | 1 | 14:16 | 0.466 | 36.17 | 0000007500 |
| 16 | 1 | 14:32 | 0.427 | 24.80 | 0000008000 |
| 17 | 1 | 14:45 | 0.449 | 30.79 | 0000008510 |
| 18 | 1 | 14:59 | 0.476 | 39.35 | 0000009010 |
| 19 | 1 | 15:11 | 0.466 | 36.17 | 0000009500 |
| 20 | 1 | 15:24 | 0.456 | 32.86 | 0000010000 |
| 21 | 1 | 15:35 | 0.518 | 51.50 | 0000010510 |
| 22 | 1 | 15:49 | 0.423 | 24.01 | 0000011010 |
| 23 | 1 | 16:07 | 0.505 | 48.01 | 0000011510 |
| 24 | 1 | 16:22 | 0.492 | 44.31 | 0000012010 |
| 25 | 1 | 16:36 | 0.433 | 26.42 | 0000012510 |
| 26 | 1 | 16:51 | 0.509 | 48.90 | 0000013010 |
| 27 | 1 | 17:09 | 0.387 | 16.39 | 0000013510 |
| 28 | 1 | 17:32 | 0.394 | 17.64 | 0000014010 |
| 29 | 1 | 17:57 | 0.371 | 13.52 | 0000014510 |
| 30 | 1 | 18:22 | 0.367 | 12.99 | 0000015010 |
| 31 | 1 | 19:03 | 0.361 | 11.96 | 0000015510 |
| 32 | 1 | 19:48 | 0.364 | 12.46 | 0000016010 |
| 33 | 1 | 20:32 | 0.354 | 10.99 | 0000016510 |
| 34 | 1 | 20:50 | 1.391 | 152.4 | 0000017010 |
| 35 | 1 | 20:59 | 0.407 | 20.32 | 0000017510 |
| 36 | 1 | 21:39 | 1.404 | 153.4 | 0000018010 |
| 37 | 1 | 21:42 | 2.425 | 160.6 | 0000018510 |
| 38 | 1 | 21:45 | 2.156 | 160.6 | 0000019010 |
| 39 | 1 | 21:49 | 0.495 | 45.25 | 0000019510 |
| 40 | 1 | 21:54 | 1.952 | 160.6 | 0000020010 |
| 41 | 1 | 21:57 | 2.129 | 160.6 | 0000020510 |
| 42 | 1 | 22:00 | 2.165 | 160.6 | 0000021010 |
| 43 | 1 | 22:03 | 0.784 | 97.19 | 0000021510 |
| 44 | 1 | 22:16 | 0.499 | 46.19 | 0000022010 |
| 45 | 1 | 22:30 | 0.420 | 23.24 | 0000022510 |
| 46 | 1 | 23:21 | 0.344 | 9.627 | 0000023010 |

WE 4-MAR-09

2784

| | | | | | |
|----|---|-------|-------|-------|------------|
| 47 | 1 | 00:09 | 0.354 | 10.99 | 0000023510 |
| 48 | 1 | 00:55 | 0.344 | 9.627 | 0000024010 |
| 49 | 1 | 01:46 | 0.348 | 10.07 | 0000024510 |
| 50 | 1 | 02:34 | 0.358 | 11.46 | 0000025010 |
| 51 | 1 | 03:17 | 0.351 | 10.52 | 0000025510 |
| 52 | 1 | 04:00 | 0.354 | 10.99 | 0000026010 |
| 53 | 1 | 04:42 | 0.354 | 10.99 | 0000026510 |
| 54 | 1 | 05:30 | 0.341 | 9.196 | 0000027010 |
| 55 | 1 | 06:22 | 0.344 | 9.627 | 0000027510 |
| 56 | 1 | 07:11 | 0.344 | 9.627 | 0000028010 |
| 57 | 1 | 07:41 | 0.410 | 21.02 | 0000028510 |
| 58 | 1 | 08:05 | 0.381 | 15.20 | 0000029010 |
| 59 | 1 | 08:34 | 0.371 | 13.52 | 0000029510 |
| 60 | 1 | 08:59 | 0.453 | 31.78 | 0000030010 |
| 61 | 1 | 09:15 | 0.459 | 33.96 | 0000030510 |

SAMPLER ID# 1182518539 09:39 4-MAR-09
Hardware: A1 Software: 2.31

***** COMBINED RESULTS *****

SITE: USDA"
Program Started at 09:24 TU 3-MAR-09
Nominal Sample Volume = 70 ml

SAMPLE BOTTLE TIME C

NO FR-TEMPERATURE

SAMPLER ID# 1182518539 09:39 4-MAR-09
Hardware: A1 Software: 2.31

***** COMBINED RESULTS *****

SITE: USDA"
Program Started at 09:24 TU 3-MAR-09
Nominal Sample Volume = 70 ml

SAMPLE BOTTLE TIME

NO RAIN GAUGE

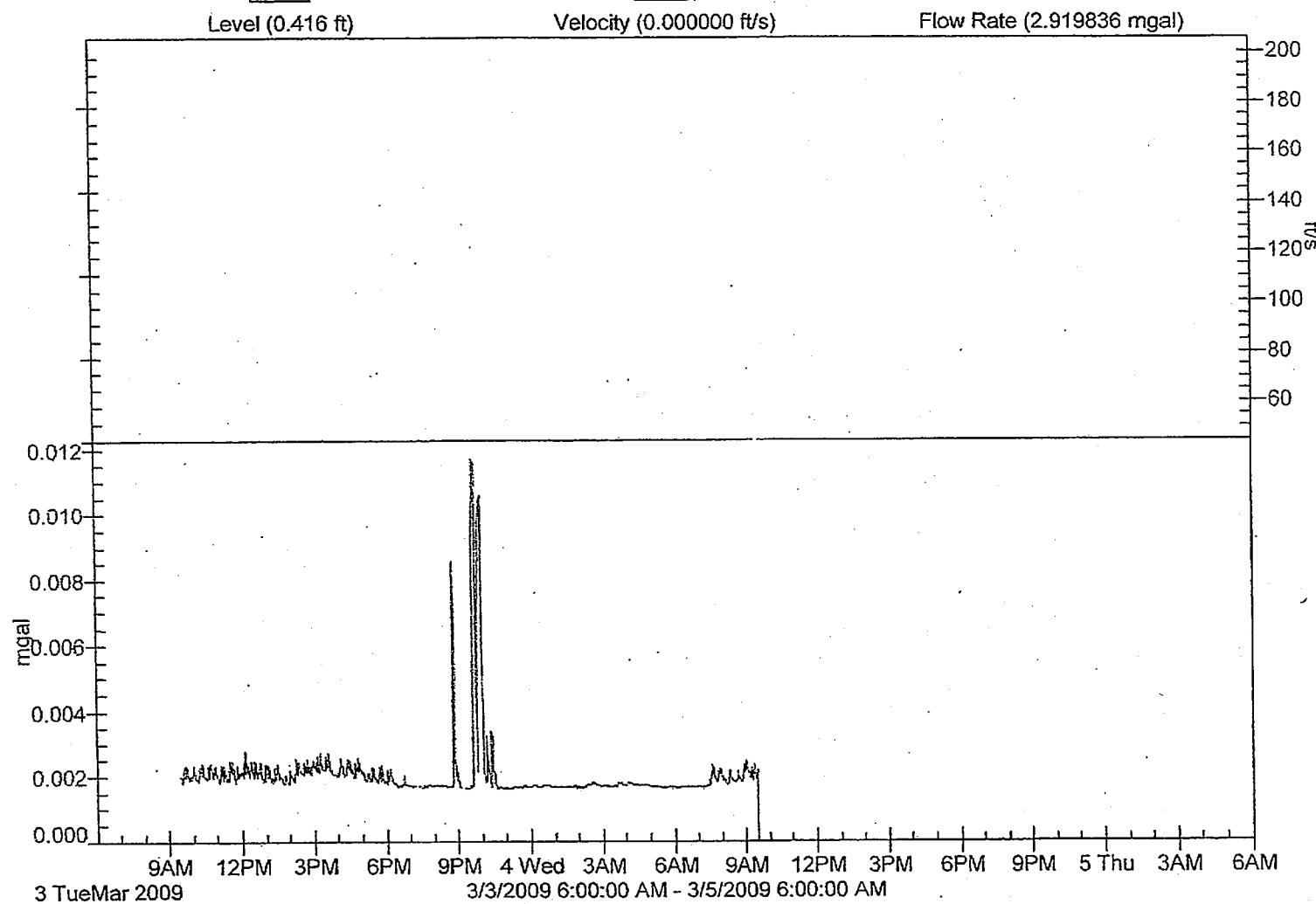
SAMPLER ID# 1182518539 09:39 4-MAR-09
Hardware: A1 Software: 2.31

SDI-12 DATA ***** COMBINED RESULTS *****

SITE: USDA"
Program Started at 09:24 TU 3-MAR-09
Nominal Sample Volume = 70 ml

NO SDI-12 SONDE

USDA-
Daily level & flow



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 500-17124-1

SDG Number: 500-17124-1

Job Description: 09-233 Sauer Danfoss

For:

Fehr-Graham & Associates
1920 Daimler Road
Rockford, IL 61112

Attention: Ms. Erin Jarrett



Approved for release.
Donna L Ingersoll
Project Manager II
3/4/2010 1:13 PM

Donna L Ingersoll
Project Manager II
donna.ingersoll@testamericainc.com
03/04/2010
Revision: 1

cc: Ms. Donna Ingersoll

These test results meet all the requirements of NELAC for accredited parameters.

The Lab Certification ID# is 100201.

All questions regarding this test report should be directed to the TestAmerica Project Manager whose signature appears on this report. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

TestAmerica Laboratories, Inc.
TestAmerica Chicago 2417 Bond Street, University Park, IL 60484
Tel (708) 534-5200 Fax (708) 534-5211 www.testamericainc.com



Job Narrative
500-17124-1

Comments

No additional comments.

Receipt

Report revised to correct analyte list. Removed 1,2-DCA and added cis- and trans-1,2-DCE.

All other samples were received in good condition within temperature requirements.

GC/MS VOA

No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: Fehr-Graham & Associates

Job Number: 500-17124-1
Sdg Number: 500-17124-1

| Lab Sample ID Analyte | Client Sample ID | Result / Qualifier | Reporting Limit | Units | Method |
|--------------------------|------------------|--------------------|--------------------|-------|--------|
| 500-17124-1 | 25560-1Q2009 | | | | |
| 1,1-Dichloroethene | | 0.017 | 0.0010 | mg/L | 8260B |
| Acetone | | 0.28 | 0.10 | mg/L | 8260B |
| 1,1-Dichloroethane | | 0.0086 | 0.0010 | mg/L | 8260B |
| 1,1,1-Trichloroethane | | 0.059 | 0.0010 | mg/L | 8260B |
| Trichloroethene | | 0.021 | 0.0010 | mg/L | 8260B |
| Tetrachloroethene | | 0.39 | 0.020 | mg/L | 8260B |
| Xylenes, Total | | 0.0055 | 0.0020 | mg/L | 8260B |
| trans-1,2-Dichloroethene | | 0.00068 J | 0.0010 | mg/L | 8260B |
| cis-1,2-Dichloroethene | | 0.067 | 0.0010 | mg/L | 8260B |

METHOD SUMMARY

Client: Fehr-Graham & Associates

Job Number: 500-17124-1
Sdg Number: 500-17124-1

| Description | Lab Location | Method | Preparation Method |
|------------------------------------------------------|--------------|-------------|--------------------|
| Matrix: Water | | | |
| Volatile Organic Compounds (GC/MS) Purge and Trap | TAL CHI | SW846 8260B | |
| | TAL CHI | | SW846 5030B |

Lab References:

TAL CHI = TestAmerica Chicago

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Fehr-Graham & Associates

Job Number: 500-17124-1
Sdg Number: 500-17124-1

| <u>Method</u> | <u>Analyst</u> | <u>Analyst ID</u> |
|---------------|-----------------|-------------------|
| SW846 8260B | Swaney, Garth E | GES |

SAMPLE SUMMARY

Client: Fehr-Graham & Associates

Job Number: 500-17124-1
Sdg Number: 500-17124-1

| Lab Sample ID | Client Sample ID | Client Matrix | Date/Time Sampled | Date/Time Received |
|---------------|------------------|---------------|-------------------|--------------------|
| 500-17124-1 | 25560-1Q2009 | Water | 02/13/2009 1300 | 02/14/2009 1000 |

SAMPLE RESULTS

Ms. Erin Jarrett
Fehr-Graham & Associates
1920 Daimler Road
Rockford, IL 61112

Job Number: 500-17124-1
Sdg Number: 500-17124-1

Client Sample ID: 25560-1Q2009
Lab Sample ID: 500-17124-1

Date Sampled: 02/13/2009 1300
Date Received: 02/14/2009 1000
Client Matrix: Water

| Analyte | Result/Qualifier | Unit | MDL | RL | Dilution |
|-----------------------------------|------------------|------|----------------|-------------------|----------|
| Method: 8260B | | | Date Analyzed: | 02/16/2009 1550 | |
| Prep Method: 5030B | | | Date Prepared: | 02/16/2009 1550 | |
| 1,1-Dichloroethene | 0.017 | mg/L | 0.00022 | 0.0010 | 1.0 |
| 1,1-Dichloroethane | 0.0086 | mg/L | 0.00018 | 0.0010 | 1.0 |
| 1,1,1-Trichloroethane | 0.059 | mg/L | 0.00023 | 0.0010 | 1.0 |
| Trichloroethene | 0.021 | mg/L | 0.00020 | 0.0010 | 1.0 |
| Xylenes, Total | 0.0055 | mg/L | 0.00033 | 0.0020 | 1.0 |
| trans-1,2-Dichloroethene | 0.00068 J | mg/L | 0.00017 | 0.0010 | 1.0 |
| cis-1,2-Dichloroethene | 0.067 | mg/L | 0.00021 | 0.0010 | 1.0 |
| Surrogate | | | | Acceptance Limits | |
| 1,2-Dichloroethane-d4 (Surr) | 109 | % | | 70 - 125 | |
| Toluene-d8 (Surr) | 95 | % | | 75 - 120 | |
| 4-Bromofluorobenzene (Surr) | 103 | % | | 75 - 120 | |
| Dibromofluoromethane | 100 | % | | 75 - 120 | |
| Method: 8260B Run Type: DL | | | Date Analyzed: | 02/16/2009 1615 | |
| Prep Method: 5030B | | | Date Prepared: | 02/16/2009 1615 | |
| Acetone | 0.28 | mg/L | 0.024 | 0.10 | 20 |
| Tetrachloroethene | 0.39 | mg/L | 0.0028 | 0.020 | 20 |
| Surrogate | | | | Acceptance Limits | |
| 1,2-Dichloroethane-d4 (Surr) | 107 | % | | 70 - 125 | |
| Toluene-d8 (Surr) | 94 | % | | 75 - 120 | |
| 4-Bromofluorobenzene (Surr) | 101 | % | | 75 - 120 | |
| Dibromofluoromethane | 95 | % | | 75 - 120 | |

DATA REPORTING QUALIFIERS

Client: Fehr-Graham & Associates

Job Number: 500-17124-1
Sdg Number: 500-17124-1

| Lab Section | Qualifier | Description |
|-------------|-----------|----------------------------------------------------------------------------------------------------------------|
| GC/MS VOA | J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

QUALITY CONTROL RESULTS

Quality Control Results

Client: Fehr-Graham & Associates

Job Number: 500-17124-1
Sdg Number: 500-17124-1

QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|---------------------------------|--------------------|--------------|---------------|--------|------------|
| GC/MS VOA | | | | | |
| Analysis Batch:500-58078 | | | | | |
| LCS 500-58078/23 | Lab Control Sample | T | Water | 8260B | |
| MB 500-58078/22 | Method Blank | T | Water | 8260B | |
| 500-17124-1 | 25560-1Q2009 | T | Water | 8260B | |
| 500-17124-1DL | 25560-1Q2009 | T | Water | 8260B | |

Report Basis

T = Total

Quality Control Results

Client: Fehr-Graham & Associates

Job Number: 500-17124-1
Sdg Number: 500-17124-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

| Lab Sample ID | Client Sample ID | DCA %Rec | TOL %Rec | BFB %Rec | DBFM %Rec |
|------------------|------------------|-------------|-------------|-------------|--------------|
| 500-17124-1 | 25560-1Q2009 | 109 | 95 | 103 | 100 |
| 500-17124-1 DL | 25560-1Q2009 DL | 107 | 94 | 101 | 95 |
| MB 500-58078/22 | | 103 | 94 | 102 | 93 |
| LCS 500-58078/23 | | 102 | 99 | 99 | 97 |

Surrogate

DCA = 1,2-Dichloroethane-d4 (Surr)

Acceptance Limits

70-125

TOL = Toluene-d8 (Surr)

75-120

BFB = 4-Bromofluorobenzene (Surr)

75-120

DBFM = Dibromofluoromethane

75-120

Quality Control Results

Client: Fehr-Graham & Associates

Job Number: 500-17124-1
Sdg Number: 500-17124-1

Method Blank - Batch: 500-58078

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 500-58078/22

Analysis Batch: 500-58078

Instrument ID: MS18

Client Matrix: Water

Prep Batch: N/A

Lab File ID: 18m0216.D

Dilution: 1.0

Units: mg/L

Initial Weight/Volume: 10 mL

Date Analyzed: 02/16/2009 1155

Final Weight/Volume: 10 mL

Date Prepared: 02/16/2009 1155

| Analyte | Result | Qual | MDL | RL |
|------------------------------|---------|------|-------------------|--------|
| 1,1-Dichloroethene | <0.0010 | | 0.00022 | 0.0010 |
| Acetone | <0.0050 | | 0.0012 | 0.0050 |
| 1,1-Dichloroethane | <0.0010 | | 0.00018 | 0.0010 |
| 1,1,1-Trichloroethane | <0.0010 | | 0.00023 | 0.0010 |
| Trichloroethene | <0.0010 | | 0.00020 | 0.0010 |
| Tetrachloroethene | <0.0010 | | 0.00014 | 0.0010 |
| 1,2-Dichloroethane | <0.0010 | | 0.00022 | 0.0010 |
| m&p-Xylene | <0.0020 | | 0.00023 | 0.0020 |
| o-Xylene | <0.0010 | | 0.00012 | 0.0010 |
| Xylenes, Total | <0.0020 | | 0.00033 | 0.0020 |
| trans-1,2-Dichloroethene | <0.0010 | | 0.00017 | 0.0010 |
| cis-1,2-Dichloroethene | <0.0010 | | 0.00021 | 0.0010 |
| Surrogate | % Rec | | Acceptance Limits | |
| 1,2-Dichloroethane-d4 (Surr) | 103 | | 70 - 125 | |
| Toluene-d8 (Surr) | 94 | | 75 - 120 | |
| 4-Bromofluorobenzene (Surr) | 102 | | 75 - 120 | |
| Dibromofluoromethane | 93 | | 75 - 120 | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Fehr-Graham & Associates

Job Number: 500-17124-1
Sdg Number: 500-17124-1

Lab Control Sample - Batch: 500-58078

Method: 8260B
Preparation: 5030B

Lab Sample ID: LCS 500-58078/23
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 02/16/2009 1220
Date Prepared: 02/16/2009 1220

Analysis Batch: 500-58078
Prep Batch: N/A
Units: mg/L

Instrument ID: MS18
Lab File ID: 18s02136.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|------------------------------|--------------|--------|--------|-------------------|------|
| 1,1-Dichloroethene | 0.0250 | 0.0192 | 77 | 55 - 121 | |
| Acetone | 0.0250 | 0.0179 | 72 | 10 - 175 | |
| 1,1-Dichloroethane | 0.0250 | 0.0207 | 83 | 69 - 120 | |
| 1,1,1-Trichloroethane | 0.0250 | 0.0222 | 89 | 68 - 125 | |
| Trichloroethene | 0.0250 | 0.0225 | 90 | 69 - 120 | |
| Tetrachloroethene | 0.0250 | 0.0240 | 96 | 65 - 120 | |
| 1,2-Dichloroethane | 0.0250 | 0.0230 | 92 | 71 - 120 | |
| m&p-Xylene | 0.0500 | 0.0456 | 91 | 78 - 120 | |
| o-Xylene | 0.0250 | 0.0228 | 91 | 79 - 120 | |
| Xylenes, Total | 0.0750 | 0.0684 | 91 | 78 - 120 | |
| trans-1,2-Dichloroethene | 0.0250 | 0.0204 | 82 | 69 - 120 | |
| cis-1,2-Dichloroethene | 0.0250 | 0.0219 | 88 | 76 - 124 | |
| Surrogate | | % Rec | | Acceptance Limits | |
| 1,2-Dichloroethane-d4 (Surr) | | 102 | | 70 - 125 | |
| Toluene-d8 (Surr) | | 99 | | 75 - 120 | |
| 4-Bromofluorobenzene (Surr) | | 99 | | 75 - 120 | |
| Dibromofluoromethane | | 97 | | 75 - 120 | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Chain of Custody Record

500-17124

| Project Number : 09-233 Sauer Danfoss | | Deliver Report To : (check one) | | LAB USE ONLY | | Page <u>1</u> of <u>1</u> | | | | | | | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------------------------------------------------------------|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|----------------------|-------------------------------------------------------------------|---|--|--|--|--|------|
| Turnaround Time (circle one) : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush | | <input type="checkbox"/> <input checked="" type="checkbox"/> | | 221 East Main Street Suite 200 Freeport, IL 61032 815-235-7643 phone 815-235-4632 fax aschlosser@fehr-graham.com e-mail | | Login ID # _____ Login By _____ Lab Proj/ID # _____ Sample Temperature _____ Received on ice Y or N Cooler Sealed Y or N Comments: | | | | | | | | | | |
| For Rush Delivery, Specify Due Date: | | | | 1920 Daimler Road Rockford, IL 61112 815-394-4700 phone 815-394-4702 fax elarrett@fehr-graham.com e-mail | | Retain Samples <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | | | | | | | | | | |
| Delivery Method : (circle one) <input type="checkbox"/> Mail <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email | | | | Sampled By: Dan Stoehr/Fehr-Graham & Associates | | ANALYSIS REQUESTED (Specify Method if applicable) | | | | | | | | | | |
| Internal Routing To : ERIN JARRETT | | | | | | | | | | | | | | | | |
| SAMPLE IDENTIFICATION | DATE SAMPLED | TIME OF COLLECTION | COMP | Number and type of containers | | | | | SAMPLE DESCRIPTION | VOC's Method 8260 See Attached Sheet For Reporting Requests | X | | | | | |
| | | | | GRAB | HCl | NaOH | HNO3 | H2SO4 | | | | | | | | NONE |
| 25560 - 1Q2009 | 2/13/2009 | <i>ipm</i> | X | 3 | | | | | Groundwater Effluent | | | | | | | |
| Relinquished By: <i>Dan Stoehr</i> | Date: 2/13/09 | Time: 2pm | Received By: <i>JLT</i> | Date: 2/14/09 | Time: 1000 | | | | | | | | | | | |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: | | | | | | | | | | | |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: | | | | | | | | | | | |

500-7124

Fehr-Graham & Associates

Project: 09-233

Sample ID: 25560 - 1Q2009

Sample Characteristics: Groundwater Remediation Effluent

Sample to be collected on 2-13-09

Number of Samples: One (1)

FGA Contact for questions: Joel Zirkle (815-394-4700) or Ken Thompson (815-235-7643)

Analyze for VOC's Method 8260 but only report for the following constituents:

1. Acetone
2. 1,1-Dichloroethane
3. 1,1-Dichloroethene
4. 1,2-Dichloroethene
5. 1,1,1-Trichloroethane
6. Trichloroethene
7. Tetrachloroethene
8. Total Xylenes

E:\Documents\2009\09-233\GW Remediation System Sample Parameters.doc

Login Sample Receipt Check List

Client: Fehr-Graham & Associates

Job Number: 500-17124-1
SDG Number: 500-17124-1

Login Number: 17124

List Source: TestAmerica Chicago

Creator: Lunt, Jeff T

List Number: 1

| Question | T / F / NA | Comment |
|----------------------------------------------------------------------------------|------------|---------|
| Radioactivity either was not measured or, if measured, is at or below background | True | |
| The cooler's custody seal, if present, is intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | 2.7 |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| There are no discrepancies between the sample IDs on the containers and the COC. | True | |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter. | True | |
| If necessary, staff have been informed of any short hold time or quick TAT needs | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |



FEHR-GRAHAM & ASSOCIATES
Engineering and Science Consultants

Hans A. Anderson, P.E.
R. Todd Weegens, P.E.
Mick W. Gronewold, P.E.
Ken R. Thompson
Adam G. Holder, P.E.

Civil

Surveying

Municipal

Structural

EHS

IT

221 E. Main Street • Suite 200 • Freeport, IL 61032
E-mail: fga@fehr-graham.com

Ph: 815/235-7643 • Fax: 815/235-4632
Web: www.fehr-graham.com

July 10, 2009

Mr. Gary Erickson
Sauer-Danfoss (US) Company
2800 East 13th Street
Ames, IA 50010

FILE COPY

RE: Non-Domestic Waste Pretreatment Program Quarterly Report – 2nd Quarter 2009

Dear Mr. Erickson:

Enclosed please find three copies of the above-referenced documents. Please review for completeness and accuracy, and if satisfactory sign and date where indicated. The original set, along with the enclosed cover letter, should be forwarded to the Water and Pollution Control Department for the City of Ames. For your convenience, certified mailing labels are enclosed. Please retain two additional copies and I will file when next on-site.

If you have any questions regarding the enclosed documents, please do not hesitate to contact this office.

Sincerely,

Daniel M. Stoehr
Project Environmental Scientist

DMS:mll

E:\Documents\SEC 2009\09-313\DMMS 09-313 - 2nd Qtr Wastewater to City of Ames.doc
Enclosure



FEHR-GRAHAM & ASSOCIATES
Engineering and Science Consultants

Civil

Surveying

Municipal

Structural

EHS

IT

221 E. Main Street • Suite 200 • Freeport, IL 61032
E-mail: fga@fehr-graham.com

Ph: 815/235-7643 • Fax: 815/235-4632
Web: www.fehr-graham.com

CERTIFIED MAIL NO. 7008 0150 0001 0180 2287
RETURN RECEIPT REQUESTED

July 14, 2009

FILE COPY

City of Ames, Iowa
Water and Pollution Control Department
300 East Fifth Street, Building 1
Ames, IA 50010

RE: Non-Domestic Waste Pretreatment Program Quarterly Report – 2nd Quarter 2009
Sauer-Danfoss (US) Company
2800 East 13th Street
Ames, IA 50010
Facility Permit No. 6593-7

Dear Sir/Madam:

Enclosed, please find the Non-Domestic Waste Pretreatment Program Quarterly Report for wastewater discharge from the above-referenced facility for the 2nd quarter of 2009. Also enclosed are copies of the analytical reports from Keystone Labs and Test America for the analysis of wastewater and groundwater remediation respectively.

Should you have any questions regarding these documents, please do not hesitate to contact this office.

Sincerely,

Daniel M. Stoehr
Project Environmental Scientist

DMS:mll
I:\Documents\SEC 2009\09-313\DMIS 09-313 - 2nd Qtr Wastewater to City of Ames.doc
Enclosure

cc: Sauer-Danfoss (with enclosure)

Hans A. Anderson, P.E.
R. Todd Weegens, P.E.
Mick W. Gronewold, P.E.
Ken R. Thompson
Adam G. Holder, P.E.

Non-Domestic Waste Pretreatment Program
Quarterly Report
 (Non-Significant, Non-Domestic Contributor)
 2nd Quarter 2009
 Reporting Period: April 1st to June 30th 2009
Submit results on or before the 10th of the month following the end of the quarter

Facility: Sauer-Danfoss
 Permit No: 6593-7
 Facility Contact: Tod Strudthoff
 Facility Phone No: 239-6242
 Sampling Location: Front Parking Lot North Manhole (Wastewater)/On-Site Wastewater Treatment
 Sample Port (GW Remediation)
 Sample Type: Grab & 24 Hour Composite
 Sample Date: 5.28.09 (GW Remediation)/04.08.09 (Wastewater)

| Analyte | Permit Limit Mg/L | Sample Results Mg/L |
|-------------------------------|------------------------------|---------------------------------|
| Facility | Sauer Danfoss 2800 East 13th | |
| Flow | Gals/Day | 12,270 |
| pH | 6-10 pH | 7.9 |
| TSS | 1,500 | 308 |
| Cyanide | 0.55 | 0.021 |
| Ammonia (NH3) | 200 | 22.5 |
| Total Kjeldahl Nitrogen (TKN) | 250 | 55 |
| Oil & Grease | 300 | 17 |
| CBOD 5 | 1,500 | 196 |
| COD | 2,500 | 667 |
| Molybdenum | 0.19 | 0.057 |
| GW remediation | | Max Expected Concentration ug/L |
| Flow (remediation) | Gals/Qttr | 520,875 |
| Acetone | 44 | <0.0050 |
| 1,1-Dichloroethane | 370 | 0.0043 |
| 1,1-Dichloroethene | 170 | 0.0079 |
| cis- 1,2-Dichloroethane | 490 | <0.0010 |
| Tetrachloroethene | 1700 | 0.28 |
| 1,1,1-Trichloroethane | 650 | 0.033 |
| Trichloroethene | 110 | 0.013 |
| Total Xylenes | 11 | <0.0020 |

Note: Please attach sample results from Laboratory

Process or Treatment Change: None

Additional Comments: Summary of monthly flow data for GW Remediation is attached.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person(s) who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signed Mary Erickson
 Authorized Representative

Date 7-13-09



MEMBER
ACIL

ANALYTICAL REPORT

Work Order: 19D0337

Report To:

Gary Erickson
Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

Work Order Information

Date Received: 04/08/2009 12:05PM
Collector: Pryke/Swank
Phone: 515-239-6539
PO Number:

April 23, 2009

Page 1 of 13

Project: Quarterly Waste Pretreatment

Project Number: Pretreatment

| Analyte | Result | MRL | Batch | Method | Analyst | Analyzed | Qualifier |
|------------------------------|---------------------------------|--------|---------|------------------|---------|---------------------------|-----------|
| 19D0337-01 | Front Parking Lot/North Manhole | | | Matrix Water | | Collected: 04/08/09 10:25 | |
| CBOD (5 day) | 196 mg/l | 4 | ID90821 | SM 5210 B | JRP | 04/08/09 13:20 | |
| Cyanide, total | 0.021 mg/l | 0.007 | ID91711 | SM 4500CN-E | DRB | 04/17/09 8:28 | |
| Chemical Oxygen Demand | 667 mg/l | 100 | ID92001 | EPA 410.4 | WAS | 04/20/09 13:02 | |
| Nitrogen, Ammonia | 22.5 mg/l | 1.0 | ID90804 | SM 4500-NH3 B.E. | SAI | 04/08/09 16:11 | |
| Oil/Grease, animal/vegetable | 16 mg/l | 4 | ID91607 | EPA 1664 | DRB | 04/16/09 8:37 | |
| Oil/Grease, petroleum | <4 mg/l | 4 | ID91607 | EPA 1664 | DRB | 04/16/09 8:37 | |
| Oil and Grease | 17 mg/l | 4 | ID91607 | EPA 1664 | DRB | 04/16/09 8:37 | |
| Nitrogen, Kjeldahl, total | 55 mg/l | 10 | ID90717 | SM 4500-N ORC | SAI | 04/09/09 16:06 | |
| Solids, total suspended | 308 mg/l | 7 | ID91347 | USGS F-3765-S5 | LJG | 04/13/09 15:54 | |
| Molybdenum, total | 0.057 mg/l | 0.010 | ID91710 | EPA 200.7 | RVV | 04/22/09 19:27 | |
| Flow | 12270 Gallons | 1,0000 | ID90825 | Flow | JRP | 04/08/09 10:30 | |
| pH | 7.9 pH | 0.5 | ID90825 | SM 4500 H+B | JRP | 04/08/09 10:30 | |
| Temperature | 18.2 °C | 0.00 | ID90825 | SM 2550 B | JRP | 04/08/09 10:30 | |

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Phone 641-792-8451

600 East 17th Street South

Newton, IA 50208

Fax 641-792-7989



MEMBER
ACIL

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2800 E. 13th St.
Ames, IA 50010

April 23, 2009
Page 2 of 13

Work Order: 19D0337

Determination of Conventional Chemistry Parameters - Quality Control

Keystone Laboratories, Inc. - Newton

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limit | RPD | RPD Limit | Notes |
|------------------------------------|--------|-----------------|-------|-------------|---------------|------|------------|--------|-----------|-------------------------------|
| Batch 19B0622 - 1B90409 | | | | | | | | | | |
| Cal Standard (19B0622-CAL1) | | | | | | | | | | |
| Chemical Oxygen Demand | 2.70 | | mg/l | | 0.0000 | | | | | |
| Cal Standard (19B0622-CAL2) | | | | | | | | | | Prepared & Analyzed: 02/06/09 |
| Chemical Oxygen Demand | 8.82 | | mg/l | | 10.000 | | 88.2 | | | |
| Cal Standard (19B0622-CAL3) | | | | | | | | | | Prepared & Analyzed: 02/06/09 |
| Chemical Oxygen Demand | 18.1 | | mg/l | | 20.000 | | 90.7 | | | |
| Cal Standard (19B0622-CAL4) | | | | | | | | | | Prepared & Analyzed: 02/06/09 |
| Chemical Oxygen Demand | 73.3 | | mg/l | | 75.000 | | 98.0 | | | |
| Cal Standard (19B0622-CAL5) | | | | | | | | | | Prepared & Analyzed: 02/06/09 |
| Chemical Oxygen Demand | 103 | | mg/l | | 100.000 | | 103 | | | |
| Cal Standard (19B0622-CAL6) | | | | | | | | | | Prepared & Analyzed: 02/06/09 |
| Chemical Oxygen Demand | 149 | | mg/l | | 150.000 | | 99.4 | | | |
| Calibration Check (19B0622-CCV1) | | | | | | | | | | Prepared & Analyzed: 02/06/09 |
| Chemical Oxygen Demand | 75.1 | | mg/l | | 75.000 | | 100 | 80-120 | | |
| Batch 19B1009 - 1B91004 | | | | | | | | | | |
| Cal Standard (19B1009-CAL1) | | | | | | | | | | |
| Cyanide, total | -0.003 | | mg/l | | 0.0000 | | | | | Prepared & Analyzed: 02/10/09 |
| Cal Standard (19B1009-CAL2) | | | | | | | | | | Prepared & Analyzed: 02/10/09 |
| Cyanide, total | 0.003 | | mg/l | | 0.0100000 | | 34.4 | | | |

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Work Order: 19D0337



April 23, 2009
Page 5 of 13

Determination of Conventional Chemistry Parameters - Quality Control
Keystone Laboratories, Inc. - Newton

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %RGC Limit | RPD | RPD Limit | Notes |
|----------------------------------------------------|--------|-----------------|-------|-------------|---------------|------------|------------|-----|-----------|-------|
| Batch 1D90804 - Wet Chem Preparation | | | | | | | | | | |
| Blank (1D90804-BLK1) Prepared & Analyzed: 04/08/09 | | | | | | | | | | |
| Nitrogen, Ammonia | ND | 1.0 | mg/l | | | | | | | |
| LCS (1D90804-BS1) | | | | | | | | | | |
| Nitrogen, Ammonia | 9.11 | 1.0 | mg/l | 10,000 | 91.1 | R3-110 | | | | |
| Duplicate (1D90804-DUP1) | | | | | | | | | | |
| Nitrogen, Ammonia | 0.136 | 1.0 | mg/l | ND | | 10 | | | | |
| Matrix Spike (1D90804-MS1) | | | | | | | | | | |
| Nitrogen, Ammonia | 13.1 | 1.0 | mg/l | 10,000 | 4.06 | 90.4 | R3-115 | | | |
| Batch 1D90821 - General Prep Micro | | | | | | | | | | |
| Blank (1D90821-BLK1) | | | | | | | | | | |
| CBOD (3 day) | ND | 4 | mg/l | | | | | | | |
| Duplicate (1D90821-DUP1) | | | | | | | | | | |
| CBOD (3 day) | 1970 | 4 | mg/l | 1760 | | 11.6 | 28 | | | |
| Reference (1D90821-SRM1) | | | | | | | | | | |
| CBOD (5 day) | 452 | 4 | mg/l | 416,900 | 103 | 24.6-115.4 | | | | |
| Batch 1D91347 - Wet Chem Preparation | | | | | | | | | | |
| Blank (1D91347-BLK1) | | | | | | | | | | |
| Solids, total suspended | ND | 1 | mg/l | | | | | | | |



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Ames, IA 50010

Work Order: 19D0337

April 23, 2009
Page 6 of 13

Determination of Conventional Chemistry Parameters - Quality Control
Keystone Laboratories, Inc. - Newton

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %RGC Limit | RPD | RPD Limit | Notes |
|-------------------------------------------------|--------|-----------------|-------|-------------|---------------|--------|------------|-------|-----------|-------|
| Batch 1D91347 - Wet Chem Preparation | | | | | | | | | | |
| LCS (1D91347-BS1) Prepared & Analyzed: 04/13/09 | | | | | | | | | | |
| Solids, total suspended | 14.5 | 1 | mg/l | 15,000 | 96.7 | 67-122 | | | | |
| Duplicate (1D91347-DUP1) | | | | | | | | | | |
| Solids, total suspended | 8.8 | 4 | mg/l | 9.2 | | 4.44 | 30 | | | |
| Batch 1D91607 - Wet Chem Preparation | | | | | | | | | | |
| Blank (1D91607-BLK1) | | | | | | | | | | |
| Oil and Grease | NO | 4 | mg/l | | | | | | | |
| Oil/Grease, animal/vegetable | ND | 4 | - | | | | | | | |
| Oil/Grease, petroleum | ND | 4 | - | | | | | | | |
| LCS (1D91607-BS1) | | | | | | | | | | |
| Oil and Grease | 33 | 4 | mg/l | 40,000 | 94.3 | 78-114 | | | | |
| Oil/Grease, animal/vegetable | 19 | 4 | - | 20,000 | 94.0 | 64-132 | | | | |
| Oil/Grease, petroleum | 19 | 4 | - | 20,000 | 95.5 | 64-132 | | | | |
| Matrix Spike (1D91607-MS1) | | | | | | | | | | |
| Oil and Grease | 41 | 4 | mg/l | 40,030 | 3 | 95.8 | 78-114 | | | |
| Oil/Grease, animal/vegetable | 23 | 4 | - | 20,040 | 1 | 106 | 64-132 | | | |
| Oil/Grease, petroleum | 19 | 4 | - | 20,040 | 1 | 25.3 | 64-132 | | | |
| Matrix Spike Dup (1D91607-MSD1) | | | | | | | | | | |
| Oil and Grease | 41 | 4 | mg/l | 39,7614 | 3 | 95.7 | 78-114 | 0.798 | 18 | |
| Oil/Grease, animal/vegetable | 22 | 4 | - | 19,8807 | 1 | 103 | 64-132 | 3.05 | 34 | |
| Oil/Grease, petroleum | 19 | 4 | - | 19,8807 | 1 | 88.0 | 64-132 | 1.87 | 34 | |

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Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

Work Order: 19D0337



April 23, 2009
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Determination of Total Metals - Quality Control
Keystone Laboratories, Inc. - Newton

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | REC Limits | RPD | RPD Limit | Notes |
|---------------------------------------|-----------|-----------------|---------|-------------|---------------|--------|------------|-----|-----------|-------|
| Batch 19D2207 - 1D92220 | | | | | | | | | | |
| Calibration Blank (19D2207-CCB8) | | | | | | | | | | |
| Molybdenum, total | -0.000200 | mg/l | 0.00000 | | | | | | | |
| Prepared: 04/22/09 Analyzed: 04/23/09 | | | | | | | | | | |
| Calibration Check (19D2207-CCV1) | | | | | | | | | | |
| Molybdenum, total | 0.994 | mg/l | 1.00000 | 99.4 | | 90-110 | | | | |
| Prepared & Analyzed: 04/22/09 | | | | | | | | | | |
| Calibration Check (19D2207-CCV2) | | | | | | | | | | |
| Molybdenum, total | 0.998 | mg/l | 1.00000 | 99.8 | | 90-110 | | | | |
| Prepared & Analyzed: 04/22/09 | | | | | | | | | | |
| Calibration Check (19D2207-CCV3) | | | | | | | | | | |
| Molybdenum, total | 0.995 | mg/l | 1.00000 | 99.5 | | 90-110 | | | | |
| Prepared & Analyzed: 04/22/09 | | | | | | | | | | |
| Calibration Check (19D2207-CCV4) | | | | | | | | | | |
| Molybdenum, total | 0.984 | mg/l | 1.00000 | 98.4 | | 90-110 | | | | |
| Prepared & Analyzed: 04/22/09 | | | | | | | | | | |
| Calibration Check (19D2207-CCV5) | | | | | | | | | | |
| Molybdenum, total | 0.975 | mg/l | 1.00000 | 97.5 | | 90-110 | | | | |
| Prepared & Analyzed: 04/22/09 | | | | | | | | | | |
| Calibration Check (19D2207-CCV6) | | | | | | | | | | |
| Molybdenum, total | 0.999 | mg/l | 1.00000 | 99.9 | | 90-110 | | | | |
| Prepared & Analyzed: 04/22/09 | | | | | | | | | | |
| Calibration Check (19D2207-CCV7) | | | | | | | | | | |
| Molybdenum, total | 0.995 | mg/l | 1.00000 | 99.5 | | 90-110 | | | | |
| Prepared & Analyzed: 04/22/09 | | | | | | | | | | |
| Calibration Check (19D2207-CCV8) | | | | | | | | | | |
| Molybdenum, total | 0.989 | mg/l | 1.00000 | 98.9 | | 90-110 | | | | |
| Prepared & Analyzed: 04/22/09 | | | | | | | | | | |
| Calibration Check (19D2207-CCV9) | | | | | | | | | | |
| Molybdenum, total | 0.996 | mg/l | 1.00000 | 99.6 | | 90-110 | | | | |
| Prepared: 04/22/09 Analyzed: 04/23/09 | | | | | | | | | | |

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Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

Work Order: 19D0337

April 23, 2009
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Determination of Total Metals - Quality Control
Keystone Laboratories, Inc. - Newton

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | REC Limits | RPD | RPD Limit | Notes |
|---------------------------------------|---------|-----------------|----------|-------------|---------------|--------|------------|-----|-----------|-------|
| Batch 19D2207 - 1D92220 | | | | | | | | | | |
| Calibration Check (19D2207-CCVA) | | | | | | | | | | |
| Molybdenum, total | 0.993 | mg/l | 1.00000 | 99.3 | | 90-110 | | | | |
| Prepared: 04/22/09 Analyzed: 04/23/09 | | | | | | | | | | |
| Calibration Check (19D2207-CCVB) | | | | | | | | | | |
| Molybdenum, total | 0.990 | mg/l | 1.00000 | 99.0 | | 90-110 | | | | |
| Prepared: 04/22/09 Analyzed: 04/23/09 | | | | | | | | | | |
| High Cal Check (19D2207-HCV2) | | | | | | | | | | |
| Molybdenum, total | 18.1 | mg/l | 20.00000 | 91.9 | | 90-110 | | | | |
| Prepared & Analyzed: 04/22/09 | | | | | | | | | | |
| Initial Cal Blank (19D2207-ICB1) | | | | | | | | | | |
| Molybdenum, total | 0.00140 | mg/l | 0.00000 | | | | | | | |
| Prepared & Analyzed: 04/22/09 | | | | | | | | | | |
| Initial Cal Check (19D2207-ICV1) | | | | | | | | | | |
| Molybdenum, total | 0.994 | mg/l | 1.00000 | 99.4 | | 90-110 | | | | |
| Prepared & Analyzed: 04/22/09 | | | | | | | | | | |
| Secondary Cal Check (19D2207-SCV1) | | | | | | | | | | |
| Molybdenum, total | 0.498 | mg/l | 0.500000 | 99.3 | | 90-110 | | | | |
| Batch 1D91710 - EPA 3010A Total TCP | | | | | | | | | | |
| Blank (1D91710-BLK1) | | | | | | | | | | |
| Molybdenum, total | ND | mg/l | 0.010 | | | | | | | |
| Prepared: 04/17/09 Analyzed: 04/22/09 | | | | | | | | | | |
| LCS (1D91710-BS1) | | | | | | | | | | |
| Molybdenum, total | 0.192 | mg/l | 0.200000 | 95.8 | | 84-112 | | | | |
| Prepared: 04/17/09 Analyzed: 04/22/09 | | | | | | | | | | |
| Matrix Spike (1D91710-MS1) | | | | | | | | | | |
| Molybdenum, total | 0.201 | mg/l | 0.200000 | ND | 101 | 73-116 | | | | |
| Source: 19D0304-01 | | | | | | | | | | |
| Prepared: 04/17/09 Analyzed: 04/22/09 | | | | | | | | | | |

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Phone 641-792-8451
600 East 17th Street South
Newton, IA 50208
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Keystone
LABORATORIES, INC.

Sauer-Danfoss
800 E. 13th St.

Work Order: 19D0337

April 23, 2009
P2P613 0113

MENGER

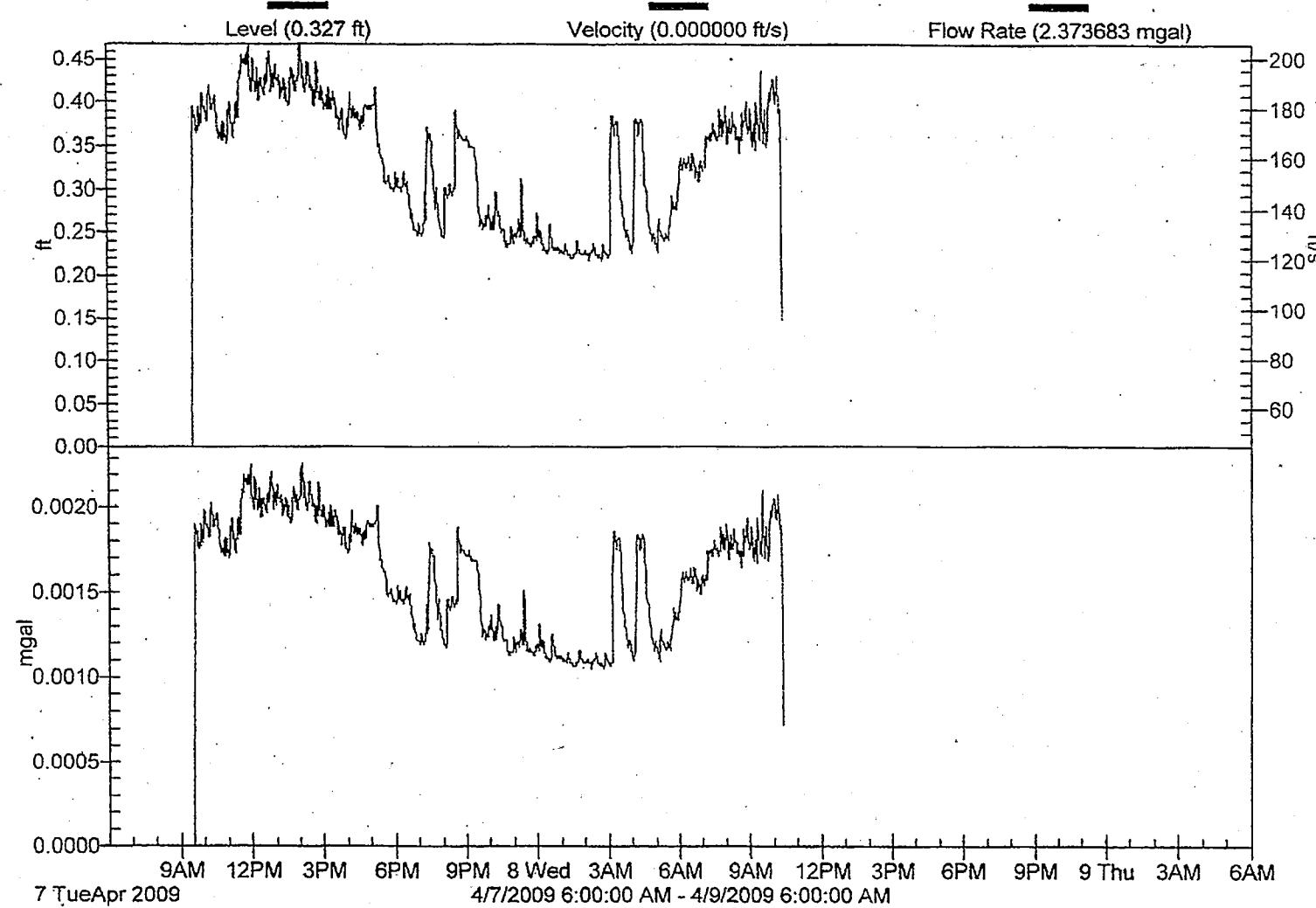
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Phone 641-792-8451 600 East 17th Street Suite 500
Fax 641-792-7989 Newton, IA 50208

19D0337

SAUER-DANF

Daily level & flow



2180

SAMPLER ID# 1159863424 10:24 8-APR-09
Hardware: A1 Software: 2.31
***** PROGRAM SETTINGS *****

SITE DESCRIPTION:
"SAUER-DANF"

UNITS SELECTED:
FLOW RATE: gpm
FLOW VOLUME: gal

BUBBLER MODULE:
FLOW-INSERT
8"
V-NOTCH

1, 9.30 lit BTLS

25 ft SUCTION LINE

PACING:
TIME, EVERY
0 HOURS, 12 MINUTES

COMPOSITE:

120 SAMPLES

70 ml SAMPLES

NO DELAY TO START

SAMPLER ID# 1159863424 10:24 8-APR-09
Hardware: A1 Software: 2.31
***** SAMPLING RESULTS *****

SITE: SAUER-DANF
Program Started at 09:35 TU 7-APR-09
Nominal Sample Volume = 70 ml

| SAMPLE | BOTTLE | TIME | SOURCE | ERROR | COUNT | TO |
|--------|--------|-------|--------|---------|--------|----|
| | | | | | LIQUID | |
| | | 09:35 | PGM | ENABLED | | |
| 1 | 1 | 09:35 | S | | 811 | |
| 2 | 1 | 09:47 | T | | 819 | |
| 3 | 1 | 09:59 | T | | 817 | |
| 4 | 1 | 10:11 | T | | 817 | |

2180

| | | | | | |
|----|---|-------|----|----|------|
| 5 | 1 | 10:23 | T | | 819 |
| 6 | 1 | 10:35 | TT | | 819 |
| 7 | 1 | 10:47 | TT | | 811 |
| 8 | 1 | 10:59 | T | | 815 |
| 9 | 1 | 11:11 | TT | | 814 |
| 10 | 1 | 11:23 | TT | | 817 |
| 11 | 1 | 11:35 | TT | | 817 |
| 12 | 1 | 11:47 | T | | 821 |
| 13 | 1 | 11:59 | T | | 817 |
| 14 | 1 | 12:11 | TT | | 821 |
| 15 | 1 | 12:23 | TT | | 817 |
| 16 | 1 | 12:35 | TT | | 821 |
| 17 | 1 | 12:47 | TT | | 821 |
| 18 | 1 | 12:59 | TT | | 821 |
| 19 | 1 | 13:11 | T | | 817 |
| 20 | 1 | 13:23 | TT | | 823 |
| 21 | 1 | 13:35 | TT | | 821 |
| 22 | 1 | 13:47 | TT | | 822 |
| 23 | 1 | 13:59 | TT | | 821 |
| 24 | 1 | 14:11 | T | | 818 |
| 25 | 1 | 14:23 | TT | | 821 |
| 26 | 1 | 14:35 | TT | | 821 |
| 27 | 1 | 14:47 | TT | | 825 |
| 28 | 1 | 14:59 | T | | 821 |
| 29 | 1 | 15:11 | TT | | 825 |
| 30 | 1 | 15:23 | TT | | 825 |
| 31 | 1 | 15:35 | TT | | 826 |
| 32 | 1 | 15:47 | TT | | 827 |
| 33 | 1 | 15:59 | TT | NM | * |
| 34 | 1 | 16:11 | T | | 822 |
| 35 | 1 | 16:23 | T | | 821 |
| 36 | 1 | 16:35 | T | | 823 |
| 37 | 1 | 16:47 | T | | 825 |
| 38 | 1 | 16:59 | T | | 821 |
| 39 | 1 | 17:11 | T | | 821 |
| 40 | 1 | 17:23 | T | NM | * |
| 41 | 1 | 17:35 | T | NM | * |
| 42 | 1 | 17:47 | T | NM | * |
| 43 | 1 | 17:59 | TT | NL | * |
| 44 | 1 | 18:11 | T | NM | * |
| 45 | 1 | 18:23 | T | NM | * |
| 46 | 1 | 18:35 | T | NL | * |
| 47 | 1 | 18:47 | TT | NL | * |
| 48 | 1 | 18:59 | TT | NL | * |
| 49 | 1 | 19:11 | TT | NL | * |
| 50 | 1 | 19:23 | TT | NL | * |
| 51 | 1 | 19:35 | TT | | 1106 |
| 52 | 1 | 19:47 | TT | NL | * |
| 53 | 1 | 19:59 | TT | NL | * |
| 54 | 1 | 20:11 | TT | NM | * |
| 55 | 1 | 20:23 | TT | NM | * |
| 56 | 1 | 20:35 | T | NL | * |
| 57 | 1 | 20:47 | T | | 797 |
| 58 | 1 | 20:59 | T | | 801 |
| 59 | 1 | 21:11 | T | | 908 |
| 60 | 1 | 21:23 | T | | 820 |
| 61 | 1 | 21:35 | T | NM | * |
| 62 | 1 | 21:47 | T | NL | * |
| 63 | 1 | 21:59 | T | NL | * |
| 64 | 1 | 22:11 | T | NL | * |
| 65 | 1 | 22:23 | T | NL | * |
| 66 | 1 | 22:35 | T | NL | * |
| 67 | 1 | 22:47 | T | NL | * |

2180

| | | | | | |
|--------------------------|---|-------|--------------------|----|-----|
| 68 | 1 | 22:59 | T | NL | * |
| 69 | 1 | 23:11 | T | NL | * |
| 70 | 1 | 23:23 | T | NL | * |
| 71 | 1 | 23:35 | T | NL | * |
| 72 | 1 | 23:47 | T | NL | * |
| 73 | 1 | 23:59 | T | NL | * |
| ----- WE 08-APR-09 ----- | | | | | |
| 74 | 1 | 00:11 | T | NL | * |
| 75 | 1 | 00:23 | T | NL | * |
| 76 | 1 | 00:35 | T | NL | * |
| 77 | 1 | 00:47 | T | NL | * |
| 78 | 1 | 00:59 | T | NL | * |
| 79 | 1 | 01:11 | T | NL | * |
| 80 | 1 | 01:23 | T | NL | * |
| 81 | 1 | 01:35 | T | NL | * |
| 82 | 1 | 01:47 | T | NL | * |
| 83 | 1 | 01:59 | T | NL | * |
| 84 | 1 | 02:11 | T | NL | * |
| 85 | 1 | 02:23 | T | NL | * |
| 86 | 1 | 02:35 | T | NL | * |
| 87 | 1 | 02:47 | T | NL | * |
| 88 | 1 | 02:59 | T | NL | * |
| 89 | 1 | 03:11 | T | | 785 |
| 90 | 1 | 03:23 | T | | 779 |
| 91 | 1 | 03:35 | T | NM | * |
| 92 | 1 | 03:47 | T | NL | * |
| 93 | 1 | 03:59 | T | NL | * |
| 94 | 1 | 04:11 | T | | 787 |
| 95 | 1 | 04:23 | T | | 777 |
| 96 | 1 | 04:35 | T | NM | * |
| 97 | 1 | 04:47 | T | NL | * |
| 98 | 1 | 04:59 | T | NL | * |
| 99 | 1 | 05:11 | T | NL | * |
| 100 | 1 | 05:23 | T | P | * |
| | | 05:23 | POWER FAILED! | | |
| | | 05:23 | POWER RESTORED | | |
| 101 | 1 | 05:35 | T | P | * |
| | | 05:35 | POWER FAILED! | | |
| | | 05:35 | POWER RESTORED | | |
| 102 | 1 | 05:47 | T | P | * |
| | | 05:47 | POWER FAILED! | | |
| | | 05:47 | POWER RESTORED | | |
| 103 | 1 | 05:59 | T | P | * |
| | | 05:59 | POWER FAILED! | | |
| | | 05:59 | POWER RESTORED | | |
| 104 | 1 | 06:11 | T | P | * |
| | | 06:11 | POWER FAILED! | | |
| | | 06:11 | POWER RESTORED | | |
| | | 06:11 | PGM STOPPED 08-APR | | |

SOURCE S ==> START
 SOURCE T ==> TIME
 ERROR NL ==> NO LIQUID DETECTED!
 ERROR NM ==> NO MORE LIQUID!
 ERROR P ==> POWER FAILED!

SAMPLER ID# 1159863424 10:25 8-APR-09
 Hardware: A1 Software: 2.31
 BUBLER MODULE: 1181980981

2180

Hardware: A0 Software: 1.07
***** COMBINED RESULTS *****

SITE: SAUER-DANF
Program Started at 09:35 TU 7-APR-09
Nominal Sample Volume = 70 ml

| SAMPLE | BOTTLE | TIME | LEVEL ft | FLOW RATE gpm | TOTAL FLOW gal |
|--------|--------|-------|-------------|---------------------|----------------------|
| 1 | 1 | 09:35 | 0.328 | 7.590 | 00000000000 |
| 2 | 1 | 09:47 | 0.364 | 12.46 | 0000000180 |
| 3 | 1 | 09:59 | 0.374 | 14.07 | 0000000350 |
| 4 | 1 | 10:11 | 0.381 | 15.20 | 0000000560 |
| 5 | 1 | 10:23 | 0.397 | 18.29 | 0000000780 |
| 6 | 1 | 10:35 | 0.404 | 19.62 | 0000001010 |
| 7 | 1 | 10:47 | 0.364 | 12.46 | 0000001170 |
| 8 | 1 | 10:59 | 0.374 | 14.07 | 0000001320 |
| 9 | 1 | 11:11 | 0.400 | 18.95 | 0000001490 |
| 10 | 1 | 11:23 | 0.374 | 14.07 | 0000001650 |
| 11 | 1 | 11:35 | 0.423 | 24.01 | 0000001860 |
| 12 | 1 | 11:47 | 0.443 | 28.99 | 0000002200 |
| 13 | 1 | 11:59 | 0.469 | 37.25 | 0000002570 |
| 14 | 1 | 12:11 | 0.446 | 29.88 | 0000002880 |
| 15 | 1 | 12:23 | 0.404 | 19.62 | 0000003170 |
| 16 | 1 | 12:35 | 0.413 | 21.75 | 0000003440 |
| 17 | 1 | 12:47 | 0.446 | 29.88 | 0000003720 |
| 18 | 1 | 12:59 | 0.433 | 26.42 | 0000004050 |
| 19 | 1 | 13:11 | 0.427 | 24.80 | 0000004350 |
| 20 | 1 | 13:23 | 0.417 | 22.48 | 0000004630 |
| 21 | 1 | 13:35 | 0.400 | 18.95 | 0000004880 |
| 22 | 1 | 13:47 | 0.440 | 28.11 | 0000005150 |
| 23 | 1 | 13:59 | 0.423 | 24.01 | 0000005430 |
| 24 | 1 | 14:11 | 0.443 | 28.99 | 0000005790 |
| 25 | 1 | 14:23 | 0.420 | 23.24 | 0000006080 |
| 26 | 1 | 14:35 | 0.420 | 23.24 | 0000006390 |
| 27 | 1 | 14:47 | 0.404 | 19.62 | 0000006640 |
| 28 | 1 | 14:59 | 0.404 | 19.62 | 0000006900 |
| 29 | 1 | 15:11 | 0.397 | 18.29 | 0000007140 |
| 30 | 1 | 15:23 | 0.390 | 17.01 | 0000007360 |
| 31 | 1 | 15:35 | 0.400 | 18.95 | 0000007590 |
| 32 | 1 | 15:47 | 0.374 | 14.07 | 0000007780 |
| 33 | 1 | 15:59 | 0.364 | 12.46 | 0000007950 |
| 34 | 1 | 16:11 | 0.384 | 15.79 | 0000008110 |
| 35 | 1 | 16:23 | 0.390 | 17.01 | 0000008320 |
| 36 | 1 | 16:35 | 0.377 | 14.63 | 0000008510 |
| 37 | 1 | 16:47 | 0.377 | 14.63 | 0000008680 |
| 38 | 1 | 16:59 | 0.390 | 17.01 | 0000008880 |
| 39 | 1 | 17:11 | 0.394 | 17.64 | 0000009090 |
| 40 | 1 | 17:23 | 0.354 | 10.99 | 0000009300 |
| 41 | 1 | 17:35 | 0.335 | 8.368 | 0000009410 |
| 42 | 1 | 17:47 | 0.308 | 5.535 | 0000009490 |
| 43 | 1 | 17:59 | 0.299 | 4.645 | 0000009550 |
| 44 | 1 | 18:11 | 0.308 | 5.535 | 0000009610 |
| 45 | 1 | 18:23 | 0.302 | 4.934 | 0000009670 |
| 46 | 1 | 18:35 | 0.308 | 5.535 | 0000009740 |
| 47 | 1 | 18:47 | 0.272 | 2.721 | 0000009780 |
| 48 | 1 | 18:59 | 0.249 | 1.504 | 0000009800 |
| 49 | 1 | 19:11 | 0.246 | 1.361 | 0000009820 |
| 50 | 1 | 19:23 | 0.276 | 2.926 | 0000009850 |
| 51 | 1 | 19:35 | 0.361 | 11.96 | 0000009980 |
| 52 | 1 | 19:47 | 0.276 | 2.926 | 0000010100 |
| 53 | 1 | 19:59 | 0.256 | 1.809 | 0000010100 |
| 54 | 1 | 20:11 | 0.299 | 4.645 | 0000010130 |

| | | | | | 2180 |
|-------------------|---|-------|-------|-------|------------|
| 55 | 1 | 20:23 | 0.305 | 5.228 | 0000010180 |
| 56 | 1 | 20:35 | 0.302 | 4.934 | 0000010230 |
| 57 | 1 | 20:47 | 0.358 | 11.46 | 0000010390 |
| 58 | 1 | 20:59 | 0.354 | 10.99 | 0000010530 |
| 59 | 1 | 21:11 | 0.354 | 10.99 | 0000010660 |
| 60 | 1 | 21:23 | 0.348 | 10.07 | 0000010790 |
| 61 | 1 | 21:35 | 0.295 | 4.373 | 0000010880 |
| 62 | 1 | 21:47 | 0.256 | 1.809 | 0000010910 |
| 63 | 1 | 21:59 | 0.266 | 2.331 | 0000010940 |
| 64 | 1 | 22:11 | 0.256 | 1.809 | 0000010970 |
| 65 | 1 | 22:23 | 0.279 | 3.148 | 0000011000 |
| 66 | 1 | 22:35 | 0.253 | 1.650 | 0000011030 |
| 67 | 1 | 22:47 | 0.233 | 0.876 | 0000011040 |
| 68 | 1 | 22:59 | 0.256 | 1.809 | 0000011060 |
| 69 | 1 | 23:11 | 0.243 | 1.230 | 0000011070 |
| 70 | 1 | 23:23 | 0.246 | 1.361 | 0000011090 |
| 71 | 1 | 23:35 | 0.240 | 1.102 | 0000011120 |
| 72 | 1 | 23:47 | 0.233 | 0.876 | 0000011130 |
| 73 | 1 | 23:59 | 0.243 | 1.230 | 0000011150 |
| <hr/> WE 8-APR-09 | | | | | |
| 74 | 1 | 00:11 | 0.253 | 1.650 | 0000011170 |
| 75 | 1 | 00:23 | 0.230 | 0.771 | 0000011180 |
| 76 | 1 | 00:35 | 0.246 | 1.361 | 0000011190 |
| 77 | 1 | 00:47 | 0.233 | 0.876 | 0000011200 |
| 78 | 1 | 00:59 | 0.233 | 0.876 | 0000011210 |
| 79 | 1 | 01:11 | 0.226 | 0.676 | 0000011220 |
| 80 | 1 | 01:23 | 0.223 | 0.585 | 0000011230 |
| 81 | 1 | 01:35 | 0.220 | 0.504 | 0000011240 |
| 82 | 1 | 01:47 | 0.240 | 1.102 | 0000011250 |
| 83 | 1 | 01:59 | 0.223 | 0.585 | 0000011260 |
| 84 | 1 | 02:11 | 0.223 | 0.585 | 0000011260 |
| 85 | 1 | 02:23 | 0.230 | 0.771 | 0000011270 |
| 86 | 1 | 02:35 | 0.223 | 0.585 | 0000011280 |
| 87 | 1 | 02:47 | 0.220 | 0.504 | 0000011290 |
| 88 | 1 | 02:59 | 0.223 | 0.585 | 0000011290 |
| 89 | 1 | 03:11 | 0.331 | 7.977 | 0000011310 |
| 90 | 1 | 03:23 | 0.371 | 13.52 | 0000011480 |
| 91 | 1 | 03:35 | 0.325 | 7.225 | 0000011630 |
| 92 | 1 | 03:47 | 0.249 | 1.504 | 0000011670 |
| 93 | 1 | 03:59 | 0.236 | 0.986 | 0000011680 |
| 94 | 1 | 04:11 | 0.328 | 7.590 | 0000011700 |
| 95 | 1 | 04:23 | 0.371 | 13.52 | 0000011860 |
| 96 | 1 | 04:35 | 0.328 | 7.590 | 0000012020 |
| 97 | 1 | 04:47 | 0.262 | 2.147 | 0000012070 |
| 98 | 1 | 04:59 | 0.249 | 1.504 | 0000012090 |
| 99 | 1 | 05:11 | 0.233 | 0.876 | 0000012100 |
| 100 | 1 | 05:23 | 0.243 | 1.230 | 0000012120 |
| 101 | 1 | 05:35 | 0.243 | 1.230 | 0000012130 |
| 102 | 1 | 05:47 | 0.285 | 3.610 | 0000012160 |
| 103 | 1 | 05:59 | 0.285 | 3.610 | 0000012200 |
| 104 | 1 | 06:11 | 0.325 | 7.225 | 0000012270 |

SAMPLER ID# 1159863424 10:26 8-APR-09

Hardware: A1 Software: 2.31
***** COMBINED RESULTS *****

SITE: SAUER-DANF

Program Started at 09:35 TU 7-APR-09
Nominal Sample Volume = 70 ml

FR-TEMP

2180

SAMPLE BOTTLE TIME C

NO FR-TEMPERATURE

SAMPLER ID# 1159863424 10:26 8-APR-09
Hardware: A1 Software: 2.31
***** COMBINED RESULTS *****

SITE: SAUER-DANF
Program Started at 09:35 TU 7-APR-09
Nominal Sample Volume = 70 ml

SAMPLE BOTTLE TIME

NO RAIN GAUGE

SAMPLER ID# 1159863424 10:26 8-APR-09
Hardware: A1 Software: 2.31

SDI-12 DATA

***** COMBINED RESULTS *****

SITE: SAUER-DANF
Program Started at 09:35 TU 7-APR-09
Nominal Sample Volume = 70 ml

NO SDI-12 SONDE

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 500-19178-1

SDG Number: 500-19178-1

Job Description: 09-233 Sauer Danfoss

For:

Fehr-Graham & Associates
221 E. Main Street, Suite 200
Freeport, IL 61032-4201

Attention: Ms. Amy Schlosser



Approved for release.
Donna L. Ingersoll
Project Manager II
6/2/2009 4:31 PM

Donna L. Ingersoll
Project Manager II
donna.ingersoll@testamericainc.com
06/02/2009

cc: Ms. Donna Ingersoll

These test results meet all the requirements of NELAC for accredited parameters.

The Lab Certification ID# is 100201.

All questions regarding this test report should be directed to the TestAmerica Project Manager whose signature appears on this report. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

TestAmerica Laboratories, Inc.
TestAmerica Chicago 2417 Bond Street, University Park, IL 60466
Tel (708) 534-5200 Fax (708) 534-5211 www.testamericainc.com



Job Narrative
500-J19178-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

GC/MS VOA

No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: Fehr-Graham & Associates

Job Number: 500-19178-1
Sdg Number: 500-19178-1

| Lab Sample ID Analyte | Client Sample ID | Result / Qualifier | Reporting Limit | Units | Method |
|--------------------------|------------------|--------------------|--------------------|-------|--------|
| 500-19178-1 | 26059-2009-2Q | | | | |
| 1,1-Dichloroethene | | 0.0079 | 0.0010 | mg/L | 8260B |
| 1,1-Dichloroethane | | 0.0043 | 0.0010 | mg/L | 8260B |
| 1,1,1-Trichloroethane | | 0.033 | 0.0010 | mg/L | 8260B |
| Trichloroethylene | | 0.013 | 0.0010 | mg/L | 8260B |
| Tetrachloroethylene | | 0.28 | 0.010 | mg/L | 8260B |

METHOD SUMMARY

Client: Fehr-Graham & Associates

Job Number: 500-19178-1
Sdg Number: 500-19178-1

| Description | Lab Location | Method | Preparation Method |
|------------------------------------|--------------|-------------|--------------------|
| Matrix: Water | | | |
| Volatile Organic Compounds (GC/MS) | TAL CHI | SW846 8260B | |
| Purge and Trap | TAL CHI | SW846 5030B | |

Lab References:

TAL CHI = TestAmerica Chicago

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Fehr-Graham & Associates

Job Number: 500-19178-1
Sdg Number: 500-19178-1

| <u>Method</u> | <u>Analyst</u> | <u>Analyst ID</u> |
|---------------|------------------|-------------------|
| SW846 8260B | Alikpala, Elaine | EA |

SAMPLE SUMMARY

Client: Fehr-Graham & Associates

Job Number: 500-19178-1
Sdg Number: 500-19178-1

| Lab Sample ID | Client Sample ID | Client Matrix | Date/Time Sampled | Date/Time Received |
|---------------|------------------|---------------|-------------------|--------------------|
| 500-19178-1 | 26059-2009-2Q | Water | 05/28/2009 1000 | 05/29/2009 1010 |

SAMPLE RESULTS

Ms. Amy Schlosser
Fehr-Graham & Associates
221 E. Main Street, Suite 200
Freeport, IL 61032-4201

Job Number: 500-19178-1
Sdg Number: 500-19178-1

Client Sample ID: 26059-2009-2Q
Lab Sample ID: 500-19178-1

Date Sampled: 05/28/2009 1000
Date Received: 05/29/2009 1010
Client Matrix: Water

| Analyte | Result/Qualifier | Unit | MDL | RL | Dilution |
|-----------------------------------|------------------|------|----------------|-------------------|----------|
| Method: 8260B | | | Date Analyzed: | 06/02/2009 0224 | |
| Prep Method: 5030B | | | Date Prepared: | 06/02/2009 0224 | |
| 1,1-Dichloroethene | 0.0079 | mg/L | 0.00022 | 0.0010 | 1.0 |
| Acetone | <0.0050 | mg/L | 0.0012 | 0.0050 | 1.0 |
| 1,1-Dichloroethane | 0.0043 | mg/L | 0.00018 | 0.0010 | 1.0 |
| 1,1,1-Trichloroethane | 0.033 | mg/L | 0.00023 | 0.0010 | 1.0 |
| 1,2-Dichloroethane | <0.0010 | mg/L | 0.00022 | 0.0010 | 1.0 |
| Trichloroethene | 0.013 | mg/L | 0.00020 | 0.0010 | 1.0 |
| Xylenes, Total | <0.0020 | mg/L | 0.00033 | 0.0020 | 1.0 |
| Surrogate | | | | Acceptance Limits | |
| 1,2-Dichloroethane-d4 (Surr) | 103 | % | | 72 - 135 | |
| Toluene-d8 (Surr) | 98 | % | | 80 - 120 | |
| 4-Bromofluorobenzene (Surr) | 86 | % | | 77 - 120 | |
| Dibromofluoromethane | 110 | % | | 79 - 133 | |
| Method: 8260B Run Type: DL | | | Date Analyzed: | 06/02/2009 0246 | |
| Prep Method: 5030B | | | Date Prepared: | 06/02/2009 0246 | |
| Tetrachloroethene | 0.28 | mg/L | 0.0014 | 0.010 | 10 |
| Surrogate | | | | Acceptance Limits | |
| 1,2-Dichloroethane-d4 (Surr) | 102 | % | | 72 - 135 | |
| Toluene-d8 (Surr) | 98 | % | | 80 - 120 | |
| 4-Bromofluorobenzene (Surr) | 85 | % | | 77 - 120 | |
| Dibromofluoromethane | 113 | % | | 79 - 133 | |

DATA REPORTING QUALIFIERS

| Lab Section | Qualifier | Description |
|-------------|-----------|-------------|
|-------------|-----------|-------------|

QUALITY CONTROL RESULTS

Quality Control Results

Client: Fehr-Graham & Associates

Job Number: 500-19178-1
Sdg Number: 500-19178-1

QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|---------------------------------|------------------------------|--------------|---------------|--------|------------|
| GC/MS VOA | | | | | |
| Analysis Batch:500-65027 | | | | | |
| LCS 500-65027/9 | Lab Control Sample | T | Water | 8260B | |
| LCSD 500-65027/11 | Lab Control Sample Duplicate | T | Water | 8260B | |
| MB 500-65027/8 | Method Blank | T | Water | 8260B | |
| 500-19178-1 | 26059-2009-2Q | T | Water | 8260B | |
| 500-19178-1DL | 26059-2009-2Q | T | Water | 8260B | |

Report Basis

T = Total

Quality Control Results

Client: Fehr-Graham & Associates

Job Number: 500-19178-1
Sdg Number: 500-19178-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

| Lab Sample ID | Client Sample ID | 12DCE %Rec | TOL %Rec | BFB %Rec | DBFM %Rec |
|-------------------|------------------|---------------|-------------|-------------|--------------|
| 500-19178-1 | 26059-2009-2Q | 103 | 98 | 86 | 110 |
| 500-19178-1 DL | 26059-2009-2Q DL | 102 | 98 | 85 | 113 |
| MB 500-65027/8 | | 101 | 98 | 88 | 110 |
| LCS 500-65027/9 | | 102 | 102 | 92 | 109 |
| LCSD 500-65027/11 | | 88 | 100 | 89 | 105 |

| Surrogate | Acceptance Limits |
|--------------------------------------|-------------------|
| 12DCE = 1,2-Dichloroethane-d4 (Surr) | 72-135 |
| TOL = Toluene-d8 (Surr) | 80-120 |
| BFB = 4-Bromofluorobenzene (Surr) | 77-120 |
| DBFM = Dibromofluoromethane | 79-133 |

Quality Control Results

Client: Fehr-Graham & Associates

Job Number: 500-19178-1
Sdg Number: 500-19178-1

Method Blank - Batch: 500-65027

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 500-65027/8
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/02/2009 0010
Date Prepared: 06/02/2009 0010

Analysis Batch: 500-65027
Prep Batch: N/A
Units: mg/L

Instrument ID: Agilent 6890A GC - 5973 N
Lab File ID: 22M0601C.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

| Analyte | Result | Qual | MDL | RL |
|-----------------------------|---------|------|-------------------|--------|
| 1,1-Dichloroethene | <0.0010 | | 0.00022 | 0.0010 |
| Acetone | <0.0050 | | 0.0012 | 0.0050 |
| 1,1-Dichloroethane | <0.0010 | | 0.00018 | 0.0010 |
| 1,1,1-Trichloroethane | <0.0010 | | 0.00023 | 0.0010 |
| 1,2-Dichloroethane | <0.0010 | | 0.00022 | 0.0010 |
| Trichloroethene | <0.0010 | | 0.00020 | 0.0010 |
| Tetrachloroethene | <0.0010 | | 0.00014 | 0.0010 |
| m&p-Xylene | <0.0020 | | 0.00023 | 0.0020 |
| o-Xylene | <0.0010 | | 0.00012 | 0.0010 |
| Xylenes, Total | <0.0020 | | 0.00033 | 0.0020 |
| Surrogate | % Rec | | Acceptance Limits | |
| 1,2-Dichloroethane-d4 (Sur) | 101 | | 72 - 135 | |
| Toluene-d8 (Sur) | 98 | | 80 - 120 | |
| 4-Bromofluorobenzene (Sum) | 88 | | 77 - 120 | |
| Dibromofluoromethane | 110 | | 79 - 133 | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Fehr-Graham & Associates

Job Number: 500-19178-1
Sdg Number: 500-19178-1

Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 500-65027

Method: 8260B

Preparation: 5030B

LCS Lab Sample ID: LCS 500-65027/9
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 06/02/2009 0055
 Date Prepared: 06/02/2009 0055

Analysis Batch: 500-65027
 Prep Batch: N/A
 Units: mg/L

Instrument ID: Agilent 6890A GC - 5973 N
 Lab File ID: 22S0601C.D
 Initial Weight/Volume: 10 mL
 Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 500-65027/11
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 06/02/2009 1013
 Date Prepared: 06/02/2009 1013

Analysis Batch: 500-65027
 Prep Batch: N/A
 Units: mg/L

Instrument ID: Agilent 6890A GC - 5973
 Lab File ID: 22T0601C.D
 Initial Weight/Volume: 10 mL
 Final Weight/Volume: 10 mL

| Analyte | % Rec. | | Limit | RPD | RPD Limit | LCS Qual | LCSD Qual |
|------------------------------|--------|------------------|-------------------|--------------------------|-----------|----------|-----------|
| | LCS | LCSD | | | | | |
| 1,1-Dichloroethene | 109 | 99 | 55 - 129 | 9 | 20 | | |
| Acetone | 90 | 75 | 29 - 152 | 19 | 20 | | |
| 1,1-Dichloroethane | 98 | 89 | 65 - 120 | 9 | 20 | | |
| 1,1,1-Trichloroethane | 98 | 85 | 64 - 122 | 14 | 20 | | |
| 1,2-Dichloroethane | 93 | 79 | 62 - 120 | 17 | 20 | | |
| Trichloroethene | 102 | 95 | 71 - 120 | 7 | 20 | | |
| Tetrachloroethene | 82 | 80 | 70 - 120 | 2 | 20 | | |
| m&p-Xylene | 86 | 81 | 74 - 120 | 6 | 20 | | |
| o-Xylene | 86 | 82 | 74 - 120 | 5 | 20 | | |
| Xylenes, Total | 86 | 82 | 74 - 120 | 5 | 20 | | |
| Surrogate | | LCS % Rec | LCSD % Rec | Acceptance Limits | | | |
| 1,2-Dichloroethane-d4 (Surr) | 102 | 88 | | 72 - 135 | | | |
| Toluene-d8 (Surr) | 102 | 100 | | 80 - 120 | | | |
| 4-Bromofluorobenzene (Surr) | 92 | 89 | | 77 - 120 | | | |
| Dibromofluoromethane | 109 | 105 | | 79 - 133 | | | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FEHR-GRAHAM & ASSOCIATES

CHAIN OF CUSTODY RECORD

500-19178

06/02/2009

| Project Number: | 09-233 | Deliver Report To: (check one) | | LAB USE ONLY | | | | | | | | | | Page <u>1</u> of <u>1</u> | | | |
|-----------------------------------------|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------|------|---------------|-------------|-------|----------------------|--------------------------------------------------------------|------------------------------------------------------|----------------------------------------------------------------|--|--|--|
| Turnaround Time (circle one): | <input checked="" type="checkbox"/> Standard | <input checked="" type="checkbox"/> X 221 East Main Street Suite 200 Freeport, IL 61032 815-235-7643 phone 815-235-4832 fax aschlosser@fehr-graham.com e-mail | | Login ID # _____ Login By _____ Lab Proj/ID # _____ Sample Temperature _____ Received on ice Y or N _____ Comments: _____ | | | | | | | | | | <input checked="" type="checkbox"/> Retain Samples Y N | | | |
| For Rush Delivery, Specify Due Date: | <input type="checkbox"/> | | 1920 Daimler Road Rockford, IL 61112 815-394-4700 phone 815-394-4702 fax bpaluzzi@fehr-graham.com e-mail | | | | | | | | | | Sampled By: Daniel Stoehr / Fehr-Graham & Associates | | | | |
| Delivery Method: | <input checked="" type="checkbox"/> Mail | | | ANALYSIS REQUESTED (Specify Method if applicable) | | | | | | | | | | | | | |
| | <input type="checkbox"/> Fax | | | | | | | | | | | | | | | | |
| | <input type="checkbox"/> Email | | | | | | | | | | | | | | | | |
| Internal Routing To: | | | | Daniel Stoehr | | | | | | | | | | | | | |
| SAMPLE IDENTIFICATION | DATE SAMPLED | TIME OF COLLECTION | COMP | GRAB | HCl | NaOH | HNO3 | H2SO4 | NONE | OTHER | SAMPLE DESCRIPTION | VOCs Method 8260 - See attached sheet for reporting requests | | | | | |
| 26069 - 2009 2009 | 5.28.09 | 10am | X | 3 | | | | | | | Groundwater Effluent | X | | | | | |
| COMMENTS | | | | | | | | | | | | | | | | | |
| Relinquished By: | <i>Daniel Stoehr</i> | | Date: 5-28-09 | Time: 10:30 a | Received By: | <i>JLT</i> | | Date: 5/29/09 | Time: 10:10 | | | | | | | | |
| Relinquished By: | | | Date: | Time: | Received By: | | | Date: | Time: | | | | | | | | |
| Relinquished By: | | | Date: | Time: | Received By: | | | Date: | Time: | | | | | | | | |

Page 15 of 17

Fehr-Graham & Associates

Project: 09-233

Sample ID: 26059-2Q2009

Sample Characteristics: Groundwater Remediation Effluent

Sample to be collected on: May 28, 2009

Number of Samples: One (1)

FGA Contact for questions: Joel Zirkle (815-394-4700) or Ken Thompson (815-235-7643)

Analyze for VOC's Method 8260 but only report for the following constituents:

1. Acetone
2. 1,1-Dichloroethane
3. 1,1-Dichloroethene
4. 1,2-Dichloroethene
5. 1,1,1-Trichloroethane
6. Trichloroethene
7. Tetrachloroethene
8. Total Xylenes

Login Sample Receipt Check List

Client: Fehr-Graham & Associates

Job Number: 500-19178-1
SDG Number: 500-19178-1

Login Number: 19178

List Source: TestAmerica Chicago

Creator: Lunt, Jeff T

List Number: 1

| Question | T / F / NA | Comment |
|-----------------------------------------------------------------------------------|------------|---------|
| Radioactivity either was not measured or, if measured, is at or below background. | True | |
| The cooler's custody seal, if present, is intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | 4.3 |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| There are no discrepancies between the sample IDs on the containers and the COC. | True | |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter. | True | |
| If necessary, staff have been informed of any short hold time or quick TAT needs | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |

Custodian: Fehr-Graham & Associates
Project: 09-233 Sauer Danfoss
Sample Date: 5/28/2009
Team Name: TestAmerica Chicago
Job Number: 500-19178-1

Analytical Results for Water Samples

| Exposure Routes for Specific SRG | | | | | |
|----------------------------------|-----------------------|------------|-----------|-------------|----------------|
| Method | Analyte | Ingestion | | Respiration | Classification |
| | | 100 mg/day | 10 mg/day | 10 mg/day | 10 mg/day |
| 8260B | 1,1,1-Trichloroethane | NRO | NRO | 0.2 | 1 |
| 8260B | 1,1-Dichloroethane | NRO | NRO | 0.7 | 3.5 |
| 8260B | 1,1-Dichloroethene | NRO | NRO | 0.007 | 0.035 |
| 8260B | 1,2-Dichloroethane | NRO | NRO | 0.005 | 0.025 |
| 8260B | Acetone | NRO | NRO | 6.3 | 6.3 |
| 8260B | Tetrachloroethene | NRO | NRO | 0.005 | 0.025 |
| 8260B | Trichloroethene | NRO | NRO | 0.005 | 0.025 |
| 8260B | Xylenes, Total | NRO | NRO | 10 | 10 |
| | | | | <0.0010 | <0.0020 |
| | | | | <0.0010 | <0.0020 |
| | | | | <0.0010 | <0.0020 |

Sauer-Danfoss (Ames, IA)
Groundwater Remediation Flow Data

| | |
|--------------------------------|-----------|
| April 2009 Flow (Gals) | 70,309 |
| May 2009 Flow (Gals) | 110,293 |
| June 2009 Flow (Gals) | 340,273 |
| Total flow (gals) 2nd Quarter: | 520,875 |
| | 5,724 gpd |

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 500-19178-1

SDG Number: 500-19178-1

Job Description: 09-233 Sauer Danfoss

For:

Fehr-Graham & Associates
221 E. Main Street, Suite 200
Freeport, IL 61032-4201

Attention: Ms. Amy Schlosser



Approved for release.
Donna L Ingersoll
Project Manager II
3/4/2010 1:15 PM

Donna L Ingersoll
Project Manager II
donna.ingersoll@testamericainc.com
03/04/2010
Revision: 1

cc: Ms. Donna Ingersoll

These test results meet all the requirements of NELAC for accredited parameters.

The Lab Certification ID# is 100201.

All questions regarding this test report should be directed to the TestAmerica Project Manager whose signature appears on this report. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

TestAmerica Laboratories, Inc.
TestAmerica Chicago 2417 Bond Street, University Park, IL 60484
Tel (708) 534-5200 Fax (708) 534-5211 www.testamericainc.com



**Job Narrative
500-19178-1**

Comments

No additional comments.

Receipt

Report revised to correct analyte list. Removed 1,2-DCA and added cis- and trans-1,2-DCE.

All other samples were received in good condition within temperature requirements.

GC/MS VOA

No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: Fehr-Graham & Associates

Job Number: 500-19178-1
Sdg Number: 500-19178-1

| Lab Sample ID Analyte | Client Sample ID | Result / Qualifier | Reporting Limit | Units | Method |
|--------------------------|------------------|--------------------|--------------------|-------|--------|
| 500-19178-1 | 26059-2009-2Q | | | | |
| 1,1,1-Trichloroethane | | 0.033 | 0.0010 | mg/L | 8260B |
| 1,1-Dichloroethane | | 0.0043 | 0.0010 | mg/L | 8260B |
| 1,1-Dichloroethene | | 0.0079 | 0.0010 | mg/L | 8260B |
| cis-1,2-Dichloroethene | | 0.026 | 0.0010 | mg/L | 8260B |
| Tetrachloroethene | | 0.28 | 0.010 | mg/L | 8260B |
| Trichloroethene | | 0.013 | 0.0010 | mg/L | 8260B |

METHOD SUMMARY

Client: Fehr-Graham & Associates

Job Number: 500-19178-1
Sdg Number: 500-19178-1

| Description | Lab Location | Method | Preparation Method |
|------------------------------------------------------|--------------|-------------|--------------------|
| Matrix: Water | | | |
| Volatile Organic Compounds (GC/MS) Purge and Trap | TAL CHI | SW846 8260B | |
| | TAL CHI | | SW846 5030B |

Lab References:

TAL CHI = TestAmerica Chicago

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Fehr-Graham & Associates

Job Number: 500-19178-1
Sdg Number: 500-19178-1

| Method | Analyst | Analyst ID |
|-------------|------------------|------------|
| SW846 8260B | Alikpala, Elaine | EA |

SAMPLE SUMMARY

Client: Fehr-Graham & Associates

Job Number: 500-19178-1
Sdg Number: 500-19178-1

| Lab Sample ID | Client Sample ID | Client Matrix | Date/Time Sampled | Date/Time Received |
|---------------|------------------|---------------|-------------------|--------------------|
| 500-19178-1 | 26059-2009-2Q | Water | 05/28/2009 1000 | 05/29/2009 1010 |

SAMPLE RESULTS

Ms. Amy Schlosser
Fehr-Graham & Associates
221 E. Main Street, Suite 200
Freeport, IL 61032-4201

Job Number: 500-19178-1
Sdg Number: 500-19178-1

Client Sample ID: 26059-2009-2Q
Lab Sample ID: 500-19178-1

Date Sampled: 05/28/2009 1000
Date Received: 05/29/2009 1010
Client Matrix: Water

| Analyte | Result/Qualifier | Unit | MDL | RL | Dilution |
|------------------------------|------------------|------|-------------------|-----------------|----------|
| Method: 8260B | | | Date Analyzed: | 06/02/2009 0224 | |
| Prep Method: 5030B | | | Date Prepared: | 06/02/2009 0224 | |
| 1,1,1-Trichloroethane | 0.033 | mg/L | 0.00023 | 0.0010 | 1.0 |
| 1,1-Dichloroethane | 0.0043 | mg/L | 0.00018 | 0.0010 | 1.0 |
| 1,1-Dichloroethene | 0.0079 | mg/L | 0.00022 | 0.0010 | 1.0 |
| Acetone | <0.0050 | mg/L | 0.0012 | 0.0050 | 1.0 |
| cis-1,2-Dichloroethene | 0.026 | mg/L | 0.00021 | 0.0010 | 1.0 |
| trans-1,2-Dichloroethene | <0.0010 | mg/L | 0.00017 | 0.0010 | 1.0 |
| Trichloroethene | 0.013 | mg/L | 0.00020 | 0.0010 | 1.0 |
| Xylenes, Total | <0.0020 | mg/L | 0.00033 | 0.0020 | 1.0 |
| Surrogate | | | Acceptance Limits | | |
| 1,2-Dichloroethane-d4 (Surr) | 103 | % | 72 - 135 | | |
| 4-Bromofluorobenzene (Surr) | 86 | % | 77 - 120 | | |
| Dibromofluoromethane | 110 | % | 79 - 133 | | |
| Toluene-d8 (Surr) | 98 | % | 80 - 120 | | |
| Method: 8260B Run Type: DL | | | Date Analyzed: | 06/02/2009 0246 | |
| Prep Method: 5030B | | | Date Prepared: | 06/02/2009 0246 | |
| Tetrachloroethene | 0.28 | mg/L | 0.0014 | 0.010 | 10 |
| Surrogate | | | Acceptance Limits | | |
| 1,2-Dichloroethane-d4 (Surr) | 102 | % | 72 - 135 | | |
| 4-Bromofluorobenzene (Surr) | 85 | % | 77 - 120 | | |
| Dibromofluoromethane | 113 | % | 79 - 133 | | |
| Toluene-d8 (Surr) | 98 | % | 80 - 120 | | |

DATA REPORTING QUALIFIERS

| <u>Lab Section</u> | <u>Qualifier</u> | <u>Description</u> |
|---------------------------|-------------------------|---------------------------|
|---------------------------|-------------------------|---------------------------|

QUALITY CONTROL RESULTS

Quality Control Results

Client: Fehr-Graham & Associates

Job Number: 500-19178-1
Sdg Number: 500-19178-1

QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|---------------------------------|------------------------------|--------------|---------------|--------|------------|
| GC/MS VOA | | | | | |
| Analysis Batch:500-65027 | | | | | |
| LCS 500-65027/9 | Lab Control Sample | T | Water | 8260B | |
| LCSD 500-65027/11 | Lab Control Sample Duplicate | T | Water | 8260B | |
| MB 500-65027/8 | Method Blank | T | Water | 8260B | |
| 500-19178-1 | 26059-2009-2Q | T | Water | 8260B | |
| 500-19178-1DL | 26059-2009-2Q | T | Water | 8260B | |

Report Basis

T = Total

Quality Control Results

Client: Fehr-Graham & Associates

Job Number: 500-19178-1
Sdg Number: 500-19178-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

| Lab Sample ID | Client Sample ID | DCA %Rec | BFB %Rec | DBFM %Rec | TOL %Rec |
|-------------------|------------------|-------------|-------------|--------------|-------------|
| 500-19178-1 | 26059-2009-2Q | 103 | 86 | 110 | 98 |
| 500-19178-1 DL | 26059-2009-2Q DL | 102 | 85 | 113 | 98 |
| MB 500-65027/8 | | 101 | 88 | 110 | 98 |
| LCS 500-65027/9 | | 102 | 92 | 109 | 102 |
| LCSD 500-65027/11 | | 88 | 89 | 105 | 100 |

Surrogate

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Acceptance Limits

72-135
77-120
79-133
80-120

Quality Control Results

Client: Fehr-Graham & Associates

Job Number: 500-19178-1
Sdg Number: 500-19178-1

Method Blank - Batch: 500-65027

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 500-65027/8
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/02/2009 0010
Date Prepared: 06/02/2009 0010

Analysis Batch: 500-65027
Prep Batch: N/A
Units: mg/L

Instrument ID: MS22
Lab File ID: 22M0601C.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

| Analyte | Result | Qual | MDL | RL |
|------------------------------|---------|------|-------------------|--------|
| 1,1,1-Trichloroethane | <0.0010 | | 0.00023 | 0.0010 |
| 1,1-Dichloroethane | <0.0010 | | 0.00018 | 0.0010 |
| 1,1-Dichloroethene | <0.0010 | | 0.00022 | 0.0010 |
| 1,2-Dichloroethane | <0.0010 | | 0.00022 | 0.0010 |
| Acetone | <0.0050 | | 0.0012 | 0.0050 |
| cis-1,2-Dichloroethene | <0.0010 | | 0.00021 | 0.0010 |
| m&p-Xylene | <0.0020 | | 0.00023 | 0.0020 |
| o-Xylene | <0.0010 | | 0.00012 | 0.0010 |
| Tetrachloroethene | <0.0010 | | 0.00014 | 0.0010 |
| trans-1,2-Dichloroethene | <0.0010 | | 0.00017 | 0.0010 |
| Trichloroethene | <0.0010 | | 0.00020 | 0.0010 |
| Xylenes, Total | <0.0020 | | 0.00033 | 0.0020 |
| Surrogate | % Rec | | Acceptance Limits | |
| 1,2-Dichloroethane-d4 (Surr) | 101 | | 72 - 135 | |
| 4-Bromofluorobenzene (Surr) | 88 | | 77 - 120 | |
| Dibromofluoromethane | 110 | | 79 - 133 | |
| Toluene-d8 (Surr) | 98 | | 80 - 120 | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Fehr-Graham & Associates

Job Number: 500-19178-1
Sdg Number: 500-19178-1

**Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 500-65027**

**Method: 8260B
Preparation: 5030B**

LCS Lab Sample ID: LCS 500-65027/9
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/02/2009 0055
Date Prepared: 06/02/2009 0055

Analysis Batch: 500-65027
Prep Batch: N/A
Units: mg/L

Instrument ID: MS22
Lab File ID: 22S0601C.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 500-65027/11
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/02/2009 1013
Date Prepared: 06/02/2009 1013

Analysis Batch: 500-65027
Prep Batch: N/A
Units: mg/L

Instrument ID: MS22
Lab File ID: 22T0601C.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

| Analyte | % Rec. | | Limit | RPD | RPD Limit | LCS Qual | LCSD Qual |
|------------------------------|-----------|------|------------|-----|-------------------|----------|-----------|
| | LCS | LCSD | | | | | |
| 1,1,1-Trichloroethane | 98 | 85 | 64 - 122 | 14 | 20 | | |
| 1,1-Dichloroethane | 98 | 89 | 65 - 120 | 9 | 20 | | |
| 1,1-Dichloroethene | 109 | 99 | 55 - 129 | 9 | 20 | | |
| 1,2-Dichloroethane | 93 | 79 | 62 - 120 | 17 | 20 | | |
| Acetone | 90 | 75 | 29 - 152 | 19 | 20 | | |
| cis-1,2-Dichloroethene | 112 | 106 | 72 - 123 | 6 | 20 | | |
| m&p-Xylene | 86 | 81 | 74 - 120 | 6 | 20 | | |
| o-Xylene | 86 | 82 | 74 - 120 | 5 | 20 | | |
| Tetrachloroethene | 82 | 80 | 70 - 120 | 2 | 20 | | |
| trans-1,2-Dichloroethene | 108 | 101 | 66 - 120 | 7 | 20 | | |
| Trichloroethene | 102 | 95 | 71 - 120 | 7 | 20 | | |
| Xylenes, Total | 86 | 82 | 74 - 120 | 5 | 20 | | |
| Surrogate | LCS % Rec | | LCSD % Rec | | Acceptance Limits | | |
| 1,2-Dichloroethane-d4 (Surr) | 102 | | 88 | | 72 - 135 | | |
| 4-Bromofluorobenzene (Surr) | 92 | | 89 | | 77 - 120 | | |
| Dibromofluoromethane | 109 | | 105 | | 79 - 133 | | |
| Toluene-d8 (Surr) | 102 | | 100 | | 80 - 120 | | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FEHR-GRAHAM & ASSOCIATES

CHAIN OF CUSTODY RECORD

500-19178

| | | | | |
|--------------------------------------------------------------------------------|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------|
| Project Number : 09-233 | Deliver Report To : (check one) | | LAB USE ONLY | Page <u>1</u> of <u>1</u> |
| Turnaround Time (circle one) : <input checked="" type="checkbox"/> Standard | <input checked="" type="checkbox"/> X | 22f East Main Street Suite 200 Freeport, IL 61032 815-235-7643 phone 815-235-4632 fax aschlosser@fehr-graham.com e-mail | Login ID # _____ | |
| Rush | <input type="checkbox"/> | 1920 Daimler Road Rockford, IL 61112 815-394-4700 phone 815-394-4702 fax bpaluzzi@fehr-graham.com e-mail | Login By _____ | Retain Samples |
| For Rush Delivery, Specify Due Date: | <input type="checkbox"/> | | Lab Proj/ID # _____ | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |
| Delivery Method : (circle one) | <input checked="" type="checkbox"/> Mail | | Sample Temperature _____ | |
| Fax | <input type="checkbox"/> | | Received on ice <input checked="" type="checkbox"/> Y or <input type="checkbox"/> N | |
| Email | <input type="checkbox"/> | | Comments: | |
| Internal Routing To : Daniel Stoehr | | | | |
| 8260 - See for reporting | | | | |

COMMENTS

| | | | | | |
|---------------------------------------|---------------|---------------|-------------------------|---------------|-------------|
| Relinquished By: <u>Daniel Stiles</u> | Date: 5-28-09 | Time: 10:30 a | Received By: <u>JLT</u> | Date: 5/29/09 | Time: 10:10 |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |

Fehr-Graham & Associates

Project: 09-233

Sample ID: 26059-2Q2009

Sample Characteristics: Groundwater Remediation Effluent

Sample to be collected on: May 28, 2009

Number of Samples: One (1)

FGA Contact for questions: Joel Zirkle (815-394-4700) or Ken Thompson (815-235-7643)

Analyze for VOC's Method 8260 but only report for the following constituents:

1. Acetone
2. 1,1-Dichloroethane
3. 1,1-Dichloroethene
4. 1,2-Dichloroethene
5. 1,1,1-Trichloroethane
6. Trichloroethene
7. Tetrachloroethene
8. Total Xylenes

Login Sample Receipt Check List

Client: Fehr-Graham & Associates

Job Number: 500-19178-1

SDG Number: 500-19178-1

Login Number: 19178

List Source: TestAmerica Chicago

Creator: Lunt, Jeff T

List Number: 1

| Question | T / F / NA | Comment |
|----------------------------------------------------------------------------------|------------|---------|
| Radioactivity either was not measured or, if measured, is at or below background | True | |
| The cooler's custody seal, if present, is intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | 4.3 |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| There are no discrepancies between the sample IDs on the containers and the COC. | True | |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter. | True | |
| If necessary, staff have been informed of any short hold time or quick TAT needs | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |



FEHR-GRAHAM & ASSOCIATES
Engineering and Science Consultants

Civil

Surveying

Municipal

Structural

EHS

IT

221 E. Main Street • Suite 200 • Freeport, IL 61032
E-mail: fga@fehr-graham.com

Ph: 815/235-7643 • Fax: 815/235-4632
Web: www.fehr-graham.com

October 6, 2009

FILE COPY

Mr. Gary Erickson
Sauer-Danfoss (US) Company
2800 East 13th Street
Ames, IA 50010

RE: Non-Domestic Waste Pretreatment Program Quarterly Report – 3rd Quarter 2009

Dear Mr. Erickson:

Enclosed please find three copies of the above-referenced documents. Please review for completeness and accuracy, and if satisfactory sign and date where indicated. The original set, along with the enclosed cover letter, should be forwarded to the Water and Pollution Control Department for the City of Ames. For your convenience, certified mailing labels are enclosed. Please retain two additional copies and I will file when next on-site.

If you have any questions regarding the enclosed documents, please do not hesitate to contact this office.

Sincerely,

Daniel M. Stoehr
Project Environmental Scientist

DMS:mll
I:\Documents\SEC 2009\09-313\DMIS 09313 - 3rd Qtrr Wastewater to City of Ames.doc
Enclosure

Recycled Paper



FEHR-GRAHAM & ASSOCIATES
Engineering and Science Consultants

Civil

Surveying

Municipal

Structural

EHS

IT

221 E. Main Street • Suite 200 • Freeport, IL 61032
E-mail: fga@fehr-graham.com

Ph: 815/235-7643 • Fax: 815/235-4632
Web: www.fehr-graham.com

CERTIFIED MAIL NO.: 7008 0500 0000 0550 1546
RETURN RECEIPT REQUESTED

FILE COPY

October 7, 2009

City of Ames, Iowa
Water and Pollution Control Department
300 East Fifth Street, Building 1
Ames, IA 50010

RE: Non-Domestic Waste Pretreatment Program Quarterly Report – 3rd Quarter 2009
Sauer-Danfoss (US) Company
2800 East 13th Street
Ames, IA 50010
Facility Permit No. 6593-7

Recycled Paper

Dear Sir/Madam:

Enclosed, please find the Non-Domestic Waste Pretreatment Program Quarterly Report for wastewater discharge from the above-referenced facility for the 3rd quarter of 2009. Also enclosed are copies of the analytical reports from Keystone Labs and Test America for the analysis of wastewater and groundwater remediation respectively and a summary of monthly flow in gals/month from the groundwater remediation project.

Should you have any questions regarding these documents, please do not hesitate to contact this office.

Sincerely,

Daniel M. Stoehr
Project Environmental Scientist

DMS:mll
E:\Documents\SEC 2009\09-313\DMIS 09313 - 3rd Qtr Wastewater to City of Ames.doc
Enclosure

cc: Sauer-Danfoss (with enclosure)

Non-Domestic Waste Pretreatment Program
Quarterly Report
 (Non-Significant, Non-Domestic Contributor)
 3rd Quarter 2009
 Reporting Period: July 1, 2009 to September 30, 2009
Submit results on or before the 10th of the month following the end of the quarter

Facility: Sauer-Danfoss
 Permit No: 6593-7
 Facility Contact: Gary Erickson
 Facility Phone No: 515-239-6000
 Sampling Location: Front Parking Lot North Manhole (Wastewater)/On-Site Wastewater Treatment
 Sample Port (GW Remediation)
 Sample Type: Grab & 24 Hour Composite
 Sample Date: 07.27.09 (GW Remediation)/07.07.09 (Wastewater)

| Analyte | Permit Limit Mg/L | Sample Results Mg/L |
|-------------------------------|---------------------------------|------------------------|
| Facility | Sauer Danfoss 2800 East 13th | |
| Flow | Gals/Day | 13,070 |
| pH | 6-10 pH | 8 |
| TSS | 1,500 | 70 |
| Cyanide | 0.55 | <.007 |
| Ammonia (NH3) | 200 | 10.7 |
| Total Kjeldahl Nitrogen (TKN) | 250 | 26 |
| Oil & Grease | 300 | 16 |
| CBOD 5 | 1,500 | 192 |
| COD | 2,500 | 217 |
| Molybdenum | 0.19 | <0.010 |
| <hr/> | | |
| GW remediation | Max Expected Concentration ug/L | ug/L |
| Flow (remediation) | Gals/Qtrr | 493,637 |
| Acetone | 44 | <5 |
| 1,1-Dichloroethane | 370 | 8.1 |
| 1,1-Dichloroethene | 170 | 12 |
| cis- 1,2-Dichloroethane | 490 | <1 |
| Tetrachloroethene | 1700 | 530 |
| 1,1,1-Trichloroethane | 650 | 44 |
| Trichloroethene | 110 | 19 |
| Total Xylenes | 11 | <2 |

Note: Please attach sample results from Laboratory

Process or Treatment Change:

Additional Comments: _____

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person(s) who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signed Gary Erickson
Authorized Representative

Date 10-14-09

Sauer-Danfoss
Ames, IA
Groundwater Remediation Flow Data

| | |
|--------------------------------|-----------|
| July 2009 Flow (Gals) | 254,648 |
| August 2009 Flow (Gals) | 139,099 |
| September 2009 Flow (Gals) | 99,891 |
| Total flow (gals) 3rd Quarter: | 493,637 |
| | 5,366 gpd |



ANALYTICAL REPORT

Work Order: 19G0256

| | |
|----------------------|--|
| Refrigerator Number: | |
| Gary Erickson | |
| Sauer-Danfoss | |
| 2800 E. 13th St. | |
| Ames, IA 50010 | |

| | |
|----------------------------------|--|
| Date Received: 07/07/2009 1:30PM | |
| Collector: Pryke/Swank | |
| Phone: 515-239-6539 | |
| PO Number: | |

Project: Quarterly Waste Pretreatment

Project Number: Pretreatment

| Analyte | Result | MRL | Batch | Method | Analyst | Analyzed | Qualifier |
|------------------------------|---------------------------------|--------|---------|-----------------|---------|---------------------------|-----------|
| 19G0256-01 | Front Parking Lot North Manhole | | | Matrix: Water | | Collected: 07/07/09 08:35 | |
| CBOD (5 day) | 192 mg/l | 4 | 1G90734 | SM 3210 B | JRP | 07/07/09 7:00 | |
| Cyanide, total | <0.007 mg/l | 0.007 | 1G91336 | SM 4500-CN-E | DRB | 07/14/09 8:00 | |
| Chemical Oxygen Demand | 217 mg/l | 40 | 1G90815 | EPA 410.4 | WAS | 07/09/09 13:28 | |
| Nitrogen, Ammonia | 10.7 mg/l | 1.0 | 1G90908 | SM 4500-NH3 B,E | SAI | 07/09/09 16:08 | |
| Oil/Grease, animal/vegetable | 15 mg/l | 4 | 1G90903 | EPA 1664 | WAS | 07/09/09 13:57 | |
| Oil/Grease, petroleum | <4 mg/l | 4 | 1G90903 | EPA 1664 | WAS | 07/09/09 13:57 | |
| Oil and Grease | 16 mg/l | 4 | 1G90903 | EPA 1664 | WAS | 07/09/09 13:57 | |
| pH | 8.1 pH | 0.5 | 1G90741 | SM 4500 H+B | LJG | 07/07/09 16:31 | I-03 |
| Nitrogen, Kjeldahl, total | 26 mg/l | 10 | 1G91017 | SM 4500-N ORG | SAI | 07/13/09 16:45 | |
| Solids, total suspended | 70 mg/l | 4 | 1G91309 | USGS 1-3765-B5 | LJG | 07/13/09 8:27 | |
| Molybdenum, total | <0.010 mg/l | 0.010 | 1G90806 | EPA 200.7 | RVV | 07/10/09 12:59 | |
| Flow | 13070 Gallons | 1,0000 | 1G91901 | Flow | SNT | 07/07/09 8:55 | |
| pH | 8.0 pH | 0.5 | 1G91901 | SM 4500 H+B | SNT | 07/07/09 8:55 | |
| Temperature | 19.2 °C | 0.00 | 1G91901 | SM 2550 B | SNT | 07/07/09 8:55 | |

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Determination of Conventional Chemistry Parameters - Quality Control Keystone Laboratories, Inc. - Newton

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | RPD | RPD Limit | Notes |
|-----------------------------------------|--------|-----------------|-------|-------------|---------------|------|--------|-----------|-------|
| Batch 19B0622 - 1B90409 | | | | | | | | | |
| Cal Standard (19B0622-CAL1) | | | | | | | | | |
| Chemical Oxygen Demand | 2.70 | mg/l | | | 0.00000 | | | | |
| Cal Standard (19B0622-CAL2) | | | | | | | | | |
| Chemical Oxygen Demand | 8.82 | mg/l | | | 10.00000 | 88.2 | | | |
| Cal Standard (19B0622-CAL3) | | | | | | | | | |
| Chemical Oxygen Demand | 14.1 | mg/l | | | 20.00000 | 90.7 | | | |
| Cal Standard (19B0622-CAL4) | | | | | | | | | |
| Chemical Oxygen Demand | 73.5 | mg/l | | | 75.00000 | 98.0 | | | |
| Cal Standard (19B0622-CALS) | | | | | | | | | |
| Chemical Oxygen Demand | 103 | mg/l | | | 100.000 | 103 | | | |
| Cal Standard (19B0622-CAL6) | | | | | | | | | |
| Chemical Oxygen Demand | 149 | mg/l | | | 150.000 | 99.4 | | | |
| Calibration Check (19B0622-CCV1) | | | | | | | | | |
| Chemical Oxygen Demand | 75.1 | mg/l | | | 75.00000 | 100 | 80-120 | | |
| Batch 19B1009 - 1B91004 | | | | | | | | | |
| Cal Standard (19B1009-CAL1) | | | | | | | | | |
| Cyanide, total | -0.003 | mg/l | | | 0.00000 | | | | |
| Cal Standard (19B1009-CAL2) | | | | | | | | | |
| Cyanide, total | 0.008 | mg/l | | | 0.0100000 | 34.4 | | | |

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Determination of Conventional Chemistry Parameters - Quality Control

Keystone Laboratories, Inc. - Newton

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | R/PD Limit | Notes |
|-------------------------------------------|--------|-----------------|-----------|-------------|---------------|------|-------------|------------|------------|-------|
| Batch 19B1009 - 1B91004 | | | | | | | | | | |
| Cal Standard (19B1009-CAL3) | | | | | | | | | | |
| Cyanide, total | 0.040 | mg/l | 0.0400000 | | 100 | | | | | |
| Cal Standard (19B1009-CAL4) | | | | | | | | | | |
| Cyanide, total | 0.083 | mg/l | 0.0800000 | | 104 | | | | | |
| Cal Standard (19B1009-CAL5) | | | | | | | | | | |
| Cyanide, total | 0.165 | mg/l | 0.1600000 | | 103 | | | | | |
| Cal Standard (19B1009-CAL6) | | | | | | | | | | |
| Cyanide, total | 0.317 | mg/l | 0.3200000 | | 98.9 | | | | | |
| Calibration Check (19B1009-CCV1) | | | | | | | | | | |
| Cyanide, total | 0.093 | mg/l | 0.1000000 | | 93.8 | | 90-110 | | | |
| Batch 19G0802 - 1G90815 | | | | | | | | | | |
| Calibration Check (19G0802-CCV1) | | | | | | | | | | |
| Chemical Oxygen Demand | 79.3 | mg/l | 75.0000 | | 100 | | 80-120 | | | |
| Initial Cal Check (19G0802-ICV1) | | | | | | | | | | |
| Chemical Oxygen Demand | 79.3 | mg/l | 75.0000 | | 100 | | 80-120 | | | |
| Batch 19G1405 - 1G91336 | | | | | | | | | | |
| Calibration Check (19G1405-CCV1) | | | | | | | | | | |
| Cyanide, total | 0.099 | mg/l | 0.1000000 | | 93.8 | | 90-110 | | | |
| Instrument Blank (19G1405-IBL1) | | | | | | | | | | |
| Cyanide, total | ND | mg/l | 0.007 | | | | | | | |
| Instrument Blank (19G1405-IBL2) | | | | | | | | | | |
| Cyanide, total | ND | mg/l | 0.007 | | | | | | | |
| Initial Cal Check (19G1405-ICV1) | | | | | | | | | | |
| Cyanide, total | 0.103 | mg/l | 0.1000000 | | 103 | | 90-110 | | | |
| Initial Cal Check (19G1405-ICV2) | | | | | | | | | | |
| Cyanide, total | 0.100 | mg/l | 0.1000000 | | 99.8 | | 90-110 | | | |
| Batch 1G90734 - General Prep Micro | | | | | | | | | | |
| Blank (1G90734-BLK1) | | | | | | | | | | |
| CBOD (5 day) | ND | mg/l | | | | | | | | |
| Duplicate (1G90734-DUP1) | | | | | | | | | | |
| CBOD (5 day) | 148 | mg/l | 4 | | | | 128 | | | |
| Duplicate (1G90734-DUP2) | | | | | | | | | | |
| CBOD (5 day) | 1200 | mg/l | 4 | | | | 1210 | | | |
| References (1G90734-SRM1) | | | | | | | | | | |
| CBOD (5 day) | 451 | mg/l | 4 | | | | 417,780 | | | |
| | | | | | | | 103 | 84.6-115.4 | | |

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Determination of Conventional Chemistry Parameters - Quality Control

Keystone Laboratories, Inc. - Newton

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | R/PD Limit | Notes |
|-------------------------------------------|--------|-----------------|-----------|-------------|---------------|------|-------------|-----|------------|-------|
| Batch 1G91336 | | | | | | | | | | |
| Calibration Check (19G1405-CCV2) | | | | | | | | | | |
| Cyanide, total | 0.099 | mg/l | 0.1000000 | | 93.8 | | 90-110 | | | |
| Instrument Blank (19G1405-IBL1) | | | | | | | | | | |
| Cyanide, total | ND | mg/l | 0.007 | | | | | | | |
| Instrument Blank (19G1405-IBL2) | | | | | | | | | | |
| Cyanide, total | ND | mg/l | 0.007 | | | | | | | |
| Initial Cal Check (19G1405-ICV1) | | | | | | | | | | |
| Cyanide, total | 0.103 | mg/l | 0.1000000 | | 103 | | 90-110 | | | |
| Initial Cal Check (19G1405-ICV2) | | | | | | | | | | |
| Cyanide, total | 0.100 | mg/l | 0.1000000 | | 99.8 | | 90-110 | | | |
| Batch 1G90734 - General Prep Micro | | | | | | | | | | |
| Blank (1G90734-BLK1) | | | | | | | | | | |
| CBOD (5 day) | ND | mg/l | | | | | | | | |
| Duplicate (1G90734-DUP1) | | | | | | | | | | |
| CBOD (5 day) | 148 | mg/l | 4 | | | | | | | |
| Duplicate (1G90734-DUP2) | | | | | | | | | | |
| CBOD (5 day) | 1200 | mg/l | 4 | | | | | | | |
| References (1G90734-SRM1) | | | | | | | | | | |
| CBOD (5 day) | 451 | mg/l | 4 | | | | | | | |
| | | | | | | | | | | |

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Determination of Conventional Chemistry Parameters - Quality Control

Keystone Laboratories, Inc. - Newton

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Rundt | %REC | MRLC Limits | RPD | RPD Limit | Notes |
|---------------------------------------------|--------|-----------------|-------|-------------|--------------|------|-------------|------------|-----------|-------|
| Batch 1G90741 - Wet Chem Preparation | | | | | | | | | | |
| Duplicate (1G90741-DUPL) | | | | | | | | | | |
| pH | 7.3 | 0.3 | pH | 7.3 | | | 0.136 | 10 | | I-03 |
| Reference (1G90741-SRM1) | | | | | | | | | | |
| pH | 7.0 | 0.3 | pH | 7.00000 | | | 100 | 98.5-101.5 | | I-03 |
| Batch 1G90815 - Wet Chem Preparation | | | | | | | | | | |
| Blank (1G90815-BLK1) | | | | | | | | | | |
| Chemical Oxygen Demand | ND | 10 | mg/l | | | | | | | |
| LCS (1G90815-BS1) | | | | | | | | | | |
| Chemical Oxygen Demand | 78.0 | 10 | mg/l | 75.0000 | | | 104 | 74-110 | | |
| Matrix Spike (1G90815-MS1) | | | | | | | | | | |
| Source: 19G0279-01 | | | | | | | | | | |
| Chemical Oxygen Demand | 89.9 | 10 | mg/l | 42.8571 | 66.1 | 33.5 | 66-140 | | | QM-14 |
| Matrix Spike Dup (1G90815-MSD1) | | | | | | | | | | |
| Source: 19G0279-01 | | | | | | | | | | |
| Chemical Oxygen Demand | 99.1 | 10 | mg/l | 42.8571 | 66.1 | 76.0 | 60-140 | 9.73 | | 26 |
| Batch 1G90903 - Wet Chem Preparation | | | | | | | | | | |
| Blank (1G90903-BLK1) | | | | | | | | | | |
| Oil and Grease | ND | 4 | mg/l | | | | | | | |
| Oil/Grease, animal/vegetable | ND | 4 | - | | | | | | | |
| Oil/Grease, petroleum | ND | 4 | - | | | | | | | |

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Determination of Conventional Chemistry Parameters - Quality Control

Keystone Laboratories, Inc. - Newton

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Rundt | %REC | MRLC Limits | RPD | RPD Limit | Notes |
|---------------------------------------------|--------|-----------------|-------|-------------|--------------|------|-------------|--------|-----------|-------|
| Batch 1G90903 - Wet Chem Preparation | | | | | | | | | | |
| LCS (1G90903-BS1) | | | | | | | | | | |
| Oil and Grease | 40 | 4 | mg/l | 40.0000 | | | 99.0 | 78-114 | | |
| Oil/Grease, animal/vegetable | 20 | 4 | - | 20.0000 | | | 99.5 | 64-132 | | |
| Oil/Grease, petroleum | 20 | 4 | - | 20.0000 | | | 98.5 | 64-132 | | |
| LCS Dup (1G90903-BSD1) | | | | | | | | | | |
| Oil and Grease | 39 | 4 | mg/l | 40.0000 | | | 97.5 | 78-114 | 1.53 | 200 |
| Oil/Grease, animal/vegetable | 24 | 4 | - | 20.0000 | | | 118 | 64-132 | 16.6 | 200 |
| Oil/Grease, petroleum | 16 | 4 | - | 20.0000 | | | 77.5 | 64-132 | 23.9 | 200 |
| Batch 1G90908 - Wet Chem Preparation | | | | | | | | | | |
| Blank (1G90908-BLK1) | | | | | | | | | | |
| Nitrogen, Ammonia | ND | 1.0 | mg/l | | | | | | | |
| LCS (1G90908-BS1) | | | | | | | | | | |
| Nitrogen, Ammonia | 9.38 | 1.0 | mg/l | 10.0000 | | | 98.5 | 83-110 | | |
| Duplicate (1G90908-DUPL) | | | | | | | | | | |
| Nitrogen, Ammonia | 6.870 | 1.0 | mg/l | | | | | | | 10 |
| Matrix Spike (1G90908-MS1) | | | | | | | | | | |
| Nitrogen, Ammonia | 11.1 | 1.0 | mg/l | 10.0000 | | | 111 | 73-116 | | |
| Batch 1G91017 - Wet Chem Preparation | | | | | | | | | | |
| Blank (1G91017-BLK1) | | | | | | | | | | |
| Nitrogen, Kjeldahl, total | ND | 10 | mg/l | | | | | | | |

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Determination of Conventional Chemistry Parameters - Quality Control

Keystone Laboratories, Inc. - Newton

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------------------------------------------|--------|-----------------|-------|-------------|----------------------------------------------------------|--------|-------------|-------|-----------|-------|
| Batch 1G91017 - Wet Chem Preparation | | | | | | | | | | |
| LCS (1G91017-BS1) | | | | | Prepared: 07/10/09 Analyzed: 07/13/09 | | | | | |
| Nitrogen, Kjeldahl, total | 125 | 10 | mg/l | 120.000 | 104 | 90-110 | | | | |
| Matrix Spike (1G91017-MS1) | | | | | Source: 19G0126-01 Prepared: 07/10/09 Analyzed: 07/13/09 | | | | | |
| Nitrogen, Kjeldahl, total | 122 | 10 | mg/l | 120.000 | 10 | 93.2 | 77-119 | | | |
| Matrix Spike Dup (1G91017-MSD1) | | | | | Source: 19G0126-01 Prepared: 07/10/09 Analyzed: 07/13/09 | | | | | |
| Nitrogen, Kjeldahl, total | 120 | 10 | mg/l | 120.000 | 10 | 92.3 | 77-119 | 0.893 | 10 | |
| Batch 1G91309 - Wet Chem Preparation | | | | | | | | | | |
| Blank (1G91309-BLK1) | | | | | Prepared & Analyzed: 07/13/09 | | | | | |
| Solids, total suspended | ND | 1 | mg/l | | | | | | | |
| LCS (1G91309-BS1) | | | | | Prepared & Analyzed: 07/13/09 | | | | | |
| Solids, total suspended | 14.2 | 1 | mg/l | 15.000 | 94.7 | 75-116 | | | | |
| Duplicate (1G91309-DUP1) | | | | | Source: 19G0333-02 Prepared & Analyzed: 07/13/09 | | | | | |
| Solids, total suspended | 10.8 | 4 | mg/l | | 11.2 | | 3.64 | 30 | | |
| Batch 1G91336 - Wet Chem Preparation | | | | | | | | | | |
| Blank (1G91336-BLK1) | | | | | Prepared & Analyzed: 07/14/09 | | | | | |
| Cyanide, total | ND | 0.007 | mg/l | | | | | | | |
| LCS (1G91336-BS1) | | | | | Prepared & Analyzed: 07/14/09 | | | | | |
| Cyanide, total | 0.022 | 0.007 | mg/l | 0.020000 | 112 | 74-121 | | | | |

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Determination of Conventional Chemistry Parameters - Quality Control

Keystone Laboratories, Inc. - Newton

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Rendi | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------------------------------------------|--------|-----------------|-------|-------------|--------------------|-------------------------------|-------------|--------|-----------|-------|
| Batch 1G91336 - Wet Chem Preparation | | | | | | | | | | |
| Matrix Spike (1G91336-MS1) | | | | | Source: 19G0311-01 | Prepared & Analyzed: 07/14/09 | | | | |
| Cyanide, total | 0.023 | 0.007 | mg/l | | 0.020000 | 0.003 | 110 | 60-135 | | |
| Matrix Spike Dup (1G91336-MSD1) | | | | | Source: 19G0311-01 | Prepared & Analyzed: 07/14/09 | | | | |
| Cyanide, total | 0.024 | 0.007 | mg/l | | 0.020000 | 0.003 | 105 | 60-135 | 3.76 | 30 |

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Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %RBC Limits | RPD | RPD Limit | Notes |
|--------------------------------------------|----------|-----------------|-------|-------------|---------------|--------|-------------|-----|-----------|-------|
| Batch 19G1004 - 1G5093) | | | | | | | | | | |
| Calibration Blank (19G1004-CCB1) | | | | | | | | | | |
| Molybdenum, total | 0.00000 | | mg/l | 0.00000 | | | | | | |
| Calibration Blank (19G1004-CCB2) | | | | | | | | | | |
| Molybdenum, total | 0.000200 | | mg/l | 0.00000 | | | | | | |
| Calibration Check (19G1004-CCV1) | | | | | | | | | | |
| Molybdenum, total | 1.20 | | mg/l | 1.00000 | 100 | 96-110 | | | | |
| Calibration Check (19G1004-CCV2) | | | | | | | | | | |
| Molybdenum, total | 1.10 | | mg/l | 1.00000 | 110 | 90-110 | | | | |
| High Cal Check (19G1004-HCV2) | | | | | | | | | | |
| Molybdenum, total | 20.1 | | mg/l | 20.0000 | 101 | 90-110 | | | | |
| Initial Cal Blank (19G1004-ICB1) | | | | | | | | | | |
| Molybdenum, total | 0.00000 | | mg/l | 0.00000 | | | | | | |
| Initial Cal Check (19G1004-ICV1) | | | | | | | | | | |
| Molybdenum, total | 1.05 | | mg/l | 1.00000 | 103 | 90-110 | | | | |
| Secondary Cal Check (19G1004-SCV1) | | | | | | | | | | |
| Molybdenum, total | 0.337 | | mg/l | 0.300000 | 107 | 90-110 | | | | |
| Batch 1G90806 - EPA 3010A Total ICP | | | | | | | | | | |
| Blank (1G90806-BLK1) | ND | 0.010 | mg/l | | | | | | | |
| Molybdenum, total | | | | | | | | | | |
| Prepared: 07/08/09 Analyzed: 07/10/09 | | | | | | | | | | |

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Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %RBC Limits | RPD | RPD Limit | Notes |
|--------------------------------------------|--------|-----------------|-------|-------------|---------------|--------|-------------|------|-----------|-------|
| Batch 1G90806 - EPA 3010A Total ICP | | | | | | | | | | |
| LCS (1G90806-BS1) | | | | | | | | | | |
| Molybdenum, total | 0.223 | 0.010 | mg/l | 0.20000 | 111 | 84-112 | | | | |
| Matrix Spike (1G90806-MS1) | | | | | | | | | | |
| Molybdenum, total | 0.224 | 0.010 | mg/l | 0.20000 | ND | 112 | 73-116 | | | |
| Matrix Spike Dup (1G90806-MSD1) | | | | | | | | | | |
| Molybdenum, total | 0.227 | 0.010 | mg/l | 0.20000 | ND | 113 | 73-116 | 1.02 | 13 | |
| Post Spike (1G90806-PS1) | | | | | | | | | | |
| Molybdenum, total | 0.213 | | mg/l | 0.196476 | 0.00176 | 104 | 84-116 | | | |

ND = Non Detect; REC= Recovery; RPD= Relative Percent Difference

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Certified Analyses included in this Report

| Method/Matrix | Analyte | Certifications |
|--------------------|--------------------------------------|---------------------|
| EPA 1664 In Water | | |
| | Oil and Grease | IA-NT, KS-NT, NELAC |
| | Oil/Grease, animal/vegetable | IA-NT, KS-NT, NELAC |
| | Oil/Grease, petroleum | IA-NT, KS-NT, NELAC |
| EPA 200.7 In Water | | |
| | Arsenic, total | IA-NT |
| | Cadmium, total | IA-NT |
| | Chromium, total | IA-NT |
| | Copper, total | IA-NT |
| | Iron, total | IA-NT |
| | Lead, total | IA-NT |
| | Molybdenum, total | IA-NT |
| | Nickel, total | IA-NT |
| | Silver, total | IA-NT |
| | Zinc, total | IA-NT |
| | Hardness, Total as CaCO ₃ | KS-NT, NELAC |
| EPA 200.8 In Water | | |
| | Cadmium, total | IA-NT |
| EPA 410.4 In Water | | |
| | Chemical Oxygen Demand | IA-NT, KS-NT, NELAC |
| EPA 6010B In Solid | | |
| | Chromium, total | IA-NT, KS-NT, NELAC |
| | Lead, total | IA-NT, KS-NT, NELAC |
| EPA 6020 In Water | | |
| | Nickel (SPLP) | IA-NT |
| EPA 6020A In Water | | |
| | Antimony, total | IA-NT |
| | Antimony (SPLP) | IA-NT |
| | Arsenic, total | IA-NT |
| | Arsenic (SPLP) | IA-NT |
| | Barium, total | IA-NT |
| | Boron (SPLP) | IA-NT |
| | Beryllium, total | IA-NT |
| | Beryllium (SPLP) | IA-NT |

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted. MRL = Method Reporting Limit.

Phone 641-792-8451

600 East 17th Street South
Newton, IA 50208
Fax: 641-792-7989



Keystone Laboratories, Inc.

Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

Work Order: 19G0256

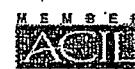
July 19, 2009
Page 12 of 14

| | |
|---------------------------|---------------------|
| Cadmium, total | IA-NT |
| Cadmium (SPLP) | IA-NT |
| Chromium, total | IA-NT |
| Chromium (SPLP) | IA-NT |
| Cobalt, total | IA-NT |
| Copper, total | IA-NT |
| Copper (SPLP) | IA-NT |
| Lead, total | IA-NT |
| Lead (SPLP) | IA-NT |
| Nickel, total | IA-NT |
| Selenium, total | IA-NT |
| Selenium (SPLP) | IA-NT |
| Silver, total | IA-NT |
| Silver (SPLP) | IA-NT |
| Thallium (SPLP) | IA-NT |
| Thallium, total | IA-NT |
| Vanadium, total | IA-NT |
| Zinc, total | IA-NT |
| SM 2550 B In Water | |
| Temperature | IA-NT |
| SM 3120B In Water | |
| Copper, total | IA-NT, KS-NT, NELAC |
| Silver, total | IA-NT, KS-NT, NELAC |
| SM 4500 H+ B In Water | |
| pH | IA-NT, KS-NT, NELAC |
| SM 4500CN-E In Water | |
| Cyanide, total | IA-NT, KS-NT, NELAC |
| SM 4500-N ORG In Water | |
| Nitrogen, Kjeldahl, total | IA-NT, KS-NT, NELAC |
| SM 4500-NH3 B,E In Water | |
| Nitrogen, Ammonia | IA-NT, KS-NT, NELAC |
| SM 5210 B In Water | |
| CBOD (5 day) | IA-NT |
| USGS I-3785-85 In Water | |
| Solids, total suspended | IA-NT |

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600 East 17th Street South
Newton, IA 50208
Fax: 641-792-7989



Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

Work Order: 19G0256

July 19, 2009
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| Code | Description | Number | Expires |
|--------|---------------------------------------------------|---------|------------|
| IA-NT- | Iowa Department of Natural Resources | 096 | 02/01/2010 |
| KS-NT | Kansas Department of Health and Environment | E-10287 | 07/31/2009 |
| NELAC | New Jersey Department of Environmental Protection | IA001 | 06/30/2009 |

Notes and Definitions

- I-03 Analyte required to be analyzed within 15 minutes of sampling. Analysis performed upon receipt of sample at laboratory.
- I-03 Analyte required to be analyzed within 15 minutes of sampling. Analysis performed upon receipt of sample at laboratory.
- QM-14 The spike recovery was outside acceptance limits for the MS and/or MSD. However, all other QC was acceptable.
- R-01 The Reporting Limit for this analyte has been raised to account for matrix interference.

End of Report

Keystone Laboratories, Inc.

Sue Thompson
Project Manager I

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted. MRL = Method Reporting Limit.

Phone 641-792-8451

600 East 17th Street South
Newton, IA 50208

Fax 641-792-7989



Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

Work Order: 19G0256

July 19, 2009
Page 14 of 14

RECEIPT OF CUSTODY RECORD

Keystone Laboratories, Inc.

Methodology: Water Analysis

Sample ID: 19G0256

Sample Type: Water

Sample Description: Water sample from Sauer-Danfoss

Sample Date: 07/19/2009

Analyst: Sue Thompson

Comments: N/A

Methodology: Water Analysis

Sample ID: 19G0256

Sample Type: Water

Sample Description: Water sample from Sauer-Danfoss

Sample Date: 07/19/2009

Analyst: Sue Thompson

Comments: N/A

Methodology: Water Analysis

Sample ID: 19G0256

Sample Type: Water

Sample Description: Water sample from Sauer-Danfoss

Sample Date: 07/19/2009

Analyst: Sue Thompson

Comments: N/A

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted. MRL = Method Reporting Limit.

Phone 641-792-8451

600 East 17th Street South
Newton, IA 50208

Fax 641-792-7989

2164

SAMPLER ID# 1159863424 09:00 7-JUL-09
Hardware: A1 Software: 2.31
***** PROGRAM SETTINGS *****

SITE DESCRIPTION:
"SAUER-DANF"

UNITS SELECTED:
FLOW RATE: gpm
FLOW VOLUME: gal

BUBBLER MODULE:
FLOW-INSERT
8"

V-NOTCH

1, 9.30 lit BTLS

25 ft SUCTION LINE

PACING:
FLOW, EVERY
250.0 gal

COMPOSITE:

120 SAMPLES

70 ml SAMPLES

NO DELAY TO START

24 HOURS RUN TIME

SAMPLER ID# 1159863424 09:00 7-JUL-09
Hardware: A1 Software: 2.31
***** SAMPLING RESULTS *****
SITE: SAUER-DANF
Program Started at 08:41 MO 6-JUL-09
Nominal Sample Volume = . 70 ml

| SAMPLE | BOTTLE | TIME | SOURCE | ERROR | COUNT | TO |
|--------|--------|-------|--------|---------|--------|----|
| | | | | | LIQUID | |
| | | 08:41 | PGM | ENABLED | * | |
| 1 | 1 | 09:17 | F | NM | * | |
| 2 | 1 | 10:19 | F | | 1036 | |
| 3 | 1 | 11:07 | F | | 897 | |
| 4 | 1 | 11:48 | F | | 869 | |

2164

| | | | | |
|----|---|-------|-----|-----|
| 5 | 1 | 12:00 | F | 873 |
| 6 | 1 | 12:10 | FF | 873 |
| 7 | 1 | 12:22 | FF | 875 |
| 8 | 1 | 12:34 | FF | 875 |
| 9 | 1 | 12:47 | FF | 878 |
| 10 | 1 | 13:01 | FFF | 881 |
| 11 | 1 | 13:14 | FFF | 881 |
| 12 | 1 | 13:26 | FFF | 881 |
| 13 | 1 | 13:39 | FFF | 881 |
| 14 | 1 | 13:53 | FFF | 887 |
| 15 | 1 | 14:06 | FFF | 881 |
| 16 | 1 | 14:19 | FFF | 882 |
| 17 | 1 | 14:31 | FFF | 883 |
| 18 | 1 | 14:44 | FFF | 887 |
| 19 | 1 | 14:57 | FFF | 893 |
| 20 | 1 | 15:11 | FFF | 894 |
| 21 | 1 | 15:25 | FFF | 895 |
| 22 | 1 | 15:38 | FFF | 899 |
| 23 | 1 | 15:53 | FFF | 893 |
| 24 | 1 | 16:07 | FFF | 893 |
| 25 | 1 | 16:22 | F | 888 |
| 26 | 1 | 17:34 | F | * |
| 27 | 1 | 23:34 | F | 803 |
| 28 | 1 | 23:50 | F | 797 |

NL

TU 07-JUL-09

| | | | | |
|----|---|-------|------|-----|
| 29 | 1 | 01:03 | F | 789 |
| 30 | 1 | 01:20 | F | 789 |
| 31 | 1 | 01:36 | F | 789 |
| 32 | 1 | 01:52 | F | 791 |
| 33 | 1 | 02:08 | F | 789 |
| 34 | 1 | 02:24 | F | 791 |
| 35 | 1 | 02:40 | F | 793 |
| 36 | 1 | 02:56 | F | 789 |
| 37 | 1 | 03:09 | F | 791 |
| 38 | 1 | 03:17 | FFF | 791 |
| 39 | 1 | 03:26 | FFF | 793 |
| 40 | 1 | 03:36 | FFF | 793 |
| 41 | 1 | 03:52 | FFF | 791 |
| 42 | 1 | 04:01 | FFF | 793 |
| 43 | 1 | 04:05 | FFF | 797 |
| 44 | 1 | 04:09 | FFF | 807 |
| 45 | 1 | 04:15 | FFF | 799 |
| 46 | 1 | 04:23 | FFF | 799 |
| 47 | 1 | 04:32 | F | 796 |
| 48 | 1 | 04:46 | F | 795 |
| 49 | 1 | 05:02 | F | 795 |
| 50 | 1 | 05:18 | F | 793 |
| 51 | 1 | 05:47 | F NL | * |
| 52 | 1 | 08:10 | F NL | * |

08:41 PGM DONE 07-JUL

SOURCE F ==> FLOW
ERROR NL ==> NO LIQUID DETECTED!
ERROR NM ==> NO MORE LIQUID!

SAMPLER ID# 1159863424 09:00 7-JUL-09
Hardware: A1 Software: 2.31
BUBLER MODULE: 1181980981
Hardware: A0 Software: 1.07

2164

***** COMBINED RESULTS *****

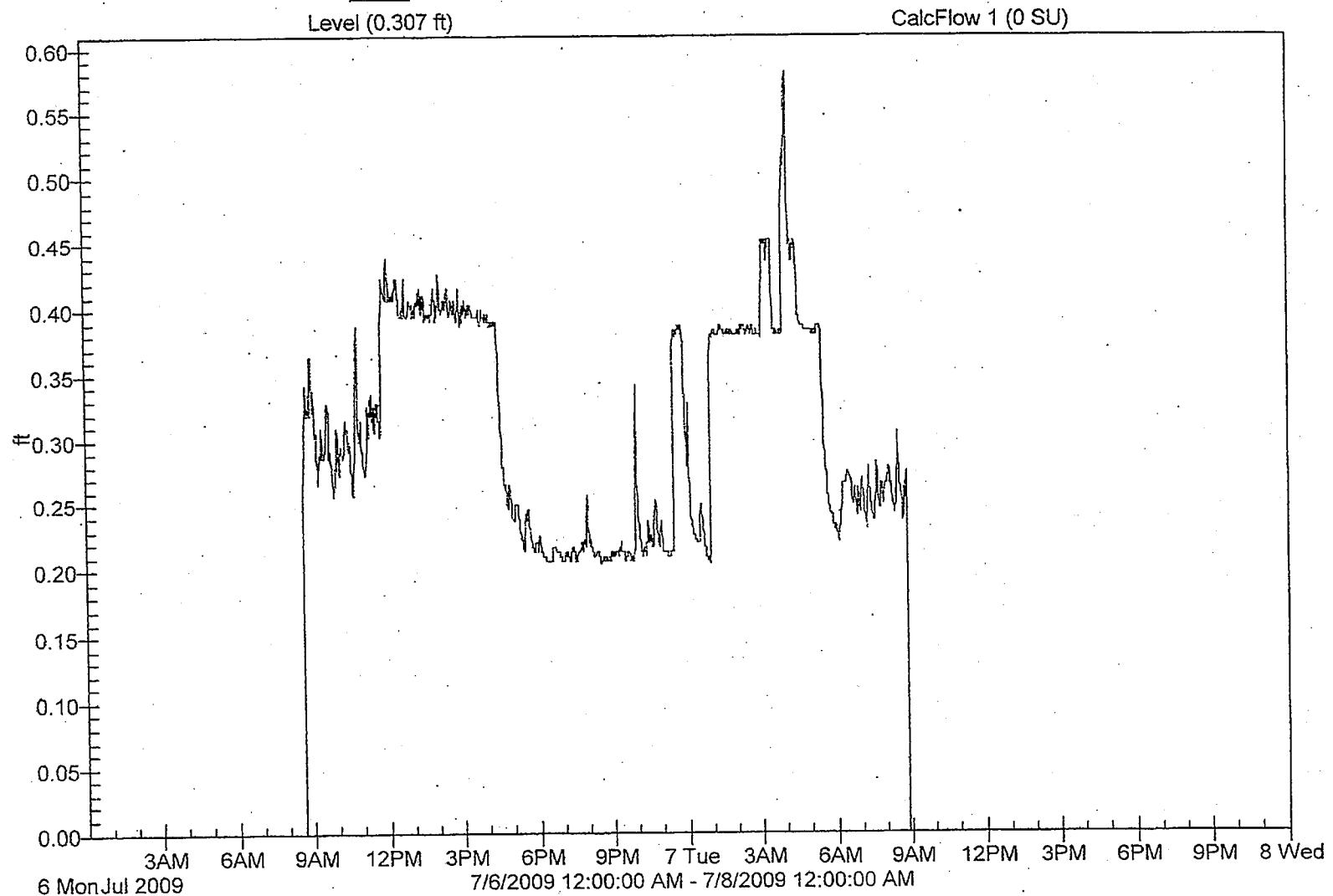
SITE: SAUER-DANF

Program Started at 08:41 MO 6-JUL-09

Nominal Sample Volume = 70 ml

| SAMPLE | BOTTLE | TIME | LEVEL ft | FLOW gpm | TOTAL FLOW gal |
|--------|--------|-------|-------------|-------------|----------------------|
| 1 | 1 | 09:17 | 0.282 | 3.374 | 0000000250 |
| 2 | 1 | 10:19 | 0.305 | 5.228 | 0000000490 |
| 3 | 1 | 11:07 | 0.276 | 2.926 | 0000000740 |
| 4 | 1 | 11:48 | 0.387 | 16.39 | 0000000990 |
| 5 | 1 | 12:00 | 0.410 | 21.02 | 0000001240 |
| 6 | 1 | 12:10 | 0.407 | 20.32 | 0000001490 |
| 7 | 1 | 12:22 | 0.413 | 21.75 | 0000001740 |
| 8 | 1 | 12:34 | 0.397 | 18.29 | 0000001990 |
| 9 | 1 | 12:47 | 0.404 | 19.62 | 0000002240 |
| 10 | 1 | 13:01 | 0.404 | 19.62 | 0000002490 |
| 11 | 1 | 13:14 | 0.404 | 19.62 | 0000002740 |
| 12 | 1 | 13:26 | 0.397 | 18.29 | 0000002990 |
| 13 | 1 | 13:39 | 0.397 | 18.29 | 0000003240 |
| 14 | 1 | 13:53 | 0.400 | 18.95 | 0000003490 |
| 15 | 1 | 14:06 | 0.400 | 18.95 | 0000003740 |
| 16 | 1 | 14:19 | 0.400 | 18.95 | 0000003990 |
| 17 | 1 | 14:31 | 0.404 | 19.62 | 0000004240 |
| 18 | 1 | 14:44 | 0.397 | 18.29 | 0000004490 |
| 19 | 1 | 14:57 | 0.410 | 21.02 | 0000004740 |
| 20 | 1 | 15:11 | 0.407 | 20.32 | 0000005000 |
| 21 | 1 | 15:25 | 0.404 | 19.62 | 0000005250 |
| 22 | 1 | 15:38 | 0.394 | 17.64 | 0000005500 |
| 23 | 1 | 15:53 | 0.400 | 18.95 | 0000005750 |
| 24 | 1 | 16:07 | 0.397 | 18.29 | 0000006000 |
| 25 | 1 | 16:22 | 0.387 | 16.39 | 0000006250 |
| 26 | 1 | 17:34 | 0.236 | 0.986 | 0000006500 |
| 27 | 1 | 23:34 | 0.384 | 15.79 | 0000006750 |
| 28 | 1 | 23:50 | 0.384 | 15.79 | 0000007000 |
| | | | TU 7-JUL-09 | | |
| 29 | 1 | 01:03 | 0.381 | 15.20 | 0000007250 |
| 30 | 1 | 01:20 | 0.381 | 15.20 | 0000007500 |
| 31 | 1 | 01:36 | 0.384 | 15.79 | 0000007750 |
| 32 | 1 | 01:52 | 0.381 | 15.20 | 0000008000 |
| 33 | 1 | 02:08 | 0.381 | 15.20 | 0000008250 |
| 34 | 1 | 02:24 | 0.384 | 15.79 | 0000008500 |
| 35 | 1 | 02:40 | 0.381 | 15.20 | 0000008750 |
| 36 | 1 | 02:56 | 0.381 | 15.20 | 0000009000 |
| 37 | 1 | 03:09 | 0.453 | 31.78 | 0000009250 |
| 38 | 1 | 03:17 | 0.453 | 31.78 | 0000009500 |
| 39 | 1 | 03:26 | 0.453 | 31.78 | 0000009750 |
| 40 | 1 | 03:36 | 0.384 | 15.79 | 0000010000 |
| 41 | 1 | 03:52 | 0.384 | 15.79 | 0000010250 |
| 42 | 1 | 04:01 | 0.515 | 50.65 | 0000010500 |
| 43 | 1 | 04:05 | 0.535 | 55.60 | 0000010750 |
| 44 | 1 | 04:09 | 0.581 | 65.75 | 0000010990 |
| 45 | 1 | 04:15 | 0.456 | 32.86 | 0000011250 |
| 46 | 1 | 04:23 | 0.449 | 30.79 | 0000011500 |
| 47 | 1 | 04:32 | 0.420 | 23.24 | 0000011750 |
| 48 | 1 | 04:46 | 0.387 | 16.39 | 0000012000 |
| 49 | 1 | 05:02 | 0.384 | 15.79 | 0000012250 |
| 50 | 1 | 05:18 | 0.387 | 16.39 | 0000012500 |
| 51 | 1 | 05:47 | 0.246 | 1.361 | 0000012750 |
| 52 | 1 | 08:10 | 0.279 | 3.148 | 0000013000 |

SAUER-DANF
Flowlink 5





ANALYTICAL REPORT

Job Number: 500-20221-1

SDG Number: 500-20221-1

Job Description: 09-233 Sauer Danfoss

For:

Fehr-Graham & Associates
221 E. Main Street, Suite 200
Freeport, IL 61032-4201

Attention: Ms. Amy Schlosser

Approved for release.
Donna L. Ingersoll
Project Manager II
7/30/2009 2:30 PM

Donna L. Ingersoll
Project Manager II
donna.ingersoll@testamericaninc.com
07/30/2009

cc: Ms. Donna Ingersoll
Ms. Erin Jarrett

These test results meet all the requirements of NELAC for accredited parameters.

The Lab Certification ID# is 100201.

All questions regarding this test report should be directed to the TestAmerica Project Manager whose signature appears on this report. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

TestAmerica Laboratories, Inc.
TestAmerica Chicago 2417 Bond Street, University Park, IL 60484
Tel (708) 534-5200 Fax (708) 534-5211 www.testamericaninc.com



Job Narrative
500-J20221-1

Comments
No additional comments.

Receipt
<<EXPLANATION REQUIRED>>

All other samples were received in good condition within temperature requirements.

GC/MS VOA
No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: Fehr-Graham & Associates

Job Number: 500-20221-1
Sdg Number: 500-20221-1

| Lab Sample ID | Client Sample ID | Result / Qualifier | Reporting Limit | Units | Method |
|-----------------------|------------------|--------------------|-----------------|-------|--------|
| 500-20221-1 | 26301-3Q2009 | | | | |
| 1,1-Dichloroethane | 0.0081 | 0.0010 | mg/L | 8260B | |
| 1,1-Dichloroethene | 0.012 | 0.0010 | mg/L | 8260B | |
| Tetrachloroethene | 0.53 | 0.010 | mg/L | 8260B | |
| 1,1,1-Trichloroethane | 0.044 | 0.0010 | mg/L | 8260B | |
| Trichloroethene | 0.019 | 0.0010 | mg/L | 8260B | |

METHOD SUMMARY

Client: Fehr-Graham & Associates

Job Number: 500-20221-1
Sdg Number: 500-20221-1

| Description | Lab Location | Method | Preparation Method |
|-----------------------------------------------------------------------|--------------------|----------------------------|--------------------|
| Matrix: Water Volatile Organic Compounds (GC/MS) Purge and Trap | TAL CHI TAL CHI | SW846 8260B SW846 5030B | |

Lab References:

TAL CHI = TestAmerica Chicago

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Fehr-Graham & Associates

Job Number: 500-20221-1
Sdg Number: 500-20221-1

| Method | Analyst | Analyst ID |
|-------------|------------------|------------|
| SW846 8260B | Allkpala, Elaine | EA |
| SW846 8260B | Drabek, Dave J | DJD |

SAMPLE SUMMARY

Client: Fehr-Graham & Associates

Job Number: 500-20221-1
Sdg Number: 500-20221-1

| Lab Sample ID | Client Sample ID | Client Matrix | Date/Time Sampled | Date/Time Received |
|---------------|------------------|---------------|-------------------|--------------------|
| 500-20221-1 | 28301-3Q2009 | Water | 07/27/2009 1300 | 07/28/2009 1020 |

Ms. Amy Schlosser
Fehr-Graham & Associates
221 E. Main Street, Suite 200
Freeport, IL 61032-4201

Job Number: 500-20221-1
Sdg Number: 500-20221-1

Client Sample ID: 26301-3Q2009
Lab Sample ID: 500-20221-1

Date Sampled: 07/27/2009 1300
Date Received: 07/28/2009 1020
Client Matrix: Water

SAMPLE RESULTS

| Analyte | Result/Qualifier | Unit | MDL | RL | Dilution |
|-----------------------------|------------------|------|---------|-------------------|-----------------|
| Method: 8260B | | | | Date Analyzed: | 07/29/2009 0111 |
| Prep Method: 5030B | | | | Date Prepared: | 07/29/2009 0111 |
| Acelone | <0.0050 | mg/L | 0.0012 | 0.0050 | 1.0 |
| 1,1-Dichloroethane | 0.0081 | mg/L | 0.00018 | 0.0010 | 1.0 |
| 1,2-Dichloroethane | <0.0010 | mg/L | 0.00022 | 0.0010 | 1.0 |
| 1,1,1-Trichloroethane | 0.012 | mg/L | 0.00022 | 0.0010 | 1.0 |
| Trichloroethene | 0.044 | mg/L | 0.00023 | 0.0010 | 1.0 |
| Xylenes, Total | 0.019 | mg/L | 0.00020 | 0.0010 | 1.0 |
| | <0.0020 | mg/L | 0.00033 | 0.0020 | 1.0 |
| Surrogate | | | | Acceptance Limits | |
| 4-Bromofluorobenzene (Sur) | 102 | % | | 77 - 120 | |
| Dibromoformmethane | 103 | % | | 79 - 133 | |
| 1,2-Dichloroethane-d4 (Sur) | 109 | % | | 72 - 135 | |
| Toluene-d8 (Sur) | 99 | % | | 80 - 120 | |
| Method: 8260B Run Type: DL | | | | Date Analyzed: | 07/29/2009 2252 |
| Prep Method: 5030B | | | | Date Prepared: | 07/29/2009 2252 |
| Tetrachloroethene | 0.53 | mg/L | 0.0014 | 0.010 | 10 |
| Surrogate | | | | Acceptance Limits | |
| 4-Bromofluorobenzene-(Sur) | 103 | % | | 77 - 120 | |
| Dibromoformmethane | 105 | % | | 79 - 133 | |
| 1,2-Dichloroethane-d4 (Sur) | 110 | % | | 72 - 135 | |
| Toluene-d8 (Sur) | 102 | % | | 80 - 120 | |

DATA REPORTING QUALIFIERS

| <u>Lab Section</u> | <u>Qualifier</u> | <u>Description</u> |
|--------------------|------------------|--------------------|
|--------------------|------------------|--------------------|

QUALITY CONTROL RESULTS

TestAmerica Chicago

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07/30/2009

Page 10 of 19

07/30/2009

Quality Control Results

Job Number: 500-20221-1
Sdg Number: 500-20221-1

Client: Fehr-Graham & Associates

Quality Control Results

Job Number: 500-20221-1
Sdg Number: 500-20221-1

QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|--------------------------|------------------------------|--------------|---------------|--------|------------|
| GC/MS VOA | | | | | |
| Analysis Batch:500-68540 | | | | | |
| LCS 500-68540/22 | Lab Control Sample | T | Water | 8260B | |
| LCSD 500-68540/23 | Lab Control Sample Duplicate | T | Water | 8260B | |
| MB 500-68540/21 | Method Blank | T | Water | 8260B | |
| 500-20221-1 | 26301-3Q2009 | T | Water | 8260B | |
| Analysis Batch:500-68648 | | | | | |
| LCS 500-68648/23 | Lab Control Sample | T | Water | 8260B | |
| LCSD 500-68648/24 | Lab Control Sample Duplicate | T | Water | 8260B | |
| MB 500-68648/22 | Method Blank | T | Water | 8260B | |
| 500-20221-1DL | 26301-3Q2009 | T | Water | 8260B | |

Report Basis
T = Total

Client: Fehr-Graham & Associates

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

| Lab Sample ID | Client Sample ID | BFB %Rec | DBFM %Rec | 12DCE %Rec | TOL %Rec |
|-------------------|------------------|-------------|--------------|---------------|-------------|
| 500-20221-1 | 26301-3Q2009 | 102 | 103 | 109 | 99 |
| 500-20221-1 DL | 26301-3Q2009 DL | 103 | 105 | 110 | 102 |
| MB 500-68540/21 | | 102 | 104 | 107 | 107 |
| MB 500-68648/22 | | 103 | 101 | 104 | 103 |
| LCS 500-68540/22 | | 105 | 108 | 106 | 103 |
| LCS 500-68648/23 | | 104 | 106 | 104 | 108 |
| LCSD 500-68540/23 | | 101 | 108 | 105 | 101 |
| LCSD 500-68648/24 | | 105 | 112 | 111 | 103 |

| Surrogate | Acceptance Limits |
|--------------------------------------|-------------------|
| BFB = 4-Bromofluorobenzene (Surf) | 77-120 |
| DBFM = Dibromofluoromethane | 79-133 |
| 12DCE = 1,2-Dichloroethane-d4 (Surf) | 72-135 |
| TOL = Toluene-d8 (Surf) | 80-120 |

TestAmerica Chicago

TestAmerica Chicago

Quality Control Results

Client: Fehr-Graham & Associates

Method Blank - Batch: 500-68540

Lab Sample ID: MB 500-68540/21
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/28/2009 1607
Date Prepared: 07/28/2009 1607

Analysis Batch: 500-68540
Prep Batch: N/A
Units: mg/L

Method: 8260B
Preparation: 5030B

Instrument ID: Agilent 6890N GC - 5973N
Lab File ID: 6S0728.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

| Analyte | Result | Qual | MDL | RL | |
|-----------------------------|---------|------|-------------------|--------|--|
| Acetone | <0.0050 | | 0.0012 | 0.0050 | |
| 1,1-Dichloroethane | <0.0010 | | 0.00018 | 0.0010 | |
| 1,2-Dichloroethane | <0.0010 | | 0.00022 | 0.0010 | |
| 1,1-Dichloroethene | <0.0010 | | 0.00022 | 0.0010 | |
| m,p-Xylene | <0.0020 | | 0.00023 | 0.0020 | |
| o-Xylene | <0.0010 | | 0.00012 | 0.0010 | |
| Tetrachloroethene | <0.0010 | | 0.00014 | 0.0010 | |
| 1,1,1-Trichloroethane | <0.0010 | | 0.00023 | 0.0010 | |
| Trichloroethene | <0.0010 | | 0.00020 | 0.0010 | |
| Xylenes, Total | <0.0020 | | 0.00033 | 0.0020 | |
| Surrogate | % Rec | | Acceptance Limits | | |
| 4-Bromofluorobenzene (Sur) | 102 | | 77 - 120 | | |
| Dibromofluoromethane | 104 | | 79 - 133 | | |
| 1,2-Dichloroethane-d4 (Sur) | 107 | | 72 - 135 | | |
| Toluene-d8 (Sur) | 107 | | 80 - 120 | | |

Client: Fehr-Graham & Associates

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 500-68540

LCS Lab Sample ID: LCS 500-68540/22
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/28/2009 1521
Date Prepared: 07/28/2009 1521

Analysis Batch: 500-68540
Prep Batch: N/A
Units: mg/L

Quality Control Results

Job Number: 500-20221-1
Sdg Number: 500-20221-1

Method: 8260B
Preparation: 5030B

Instrument ID: Agilent 6890N GC - 5973N
Lab File ID: 6S0728.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

| LCSD Lab Sample ID: LCSD 500-68540/23 | Analysis Batch: 500-68540 | Instrument ID: Agilent 6890N GC - 5973I |
|---------------------------------------|---------------------------|-----------------------------------------|
| Client Matrix: | Prep Batch: N/A | Lab File ID: 6T0728.D |
| Dilution: | Units: mg/L | Initial Weight/Volume: 10 mL |
| Date Analyzed: | Date Prepared: | Final Weight/Volume: 10 mL |
| 07/29/2009 0048 | 07/29/2009 0048 | |

| Analyte | LCS | LCSD | % Rec. | Limit | RPD | RPD Limit | LCS Qual | LCSD Qual |
|-----------------------|-----|------|----------|-------|-----|-----------|----------|-----------|
| Acetone | 75 | 86 | 29 - 152 | 14 | 20 | | | |
| 1,1-Dichloroethane | 92 | 96 | 65 - 120 | 4 | 20 | | | |
| 1,2-Dichloroethane | 100 | 102 | 62 - 120 | 2 | 20 | | | |
| 1,1-Dichloroethene | 88 | 86 | 55 - 129 | 1 | 20 | | | |
| m,p-Xylene | 96 | 101 | 74 - 120 | 5 | 20 | | | |
| o-Xylene | 96 | 99 | 74 - 120 | 3 | 20 | | | |
| Tetrachloroethene | 85 | 91 | 70 - 120 | 7 | 20 | | | |
| 1,1,1-Trichloroethane | 95 | 98 | 64 - 122 | 3 | 20 | | | |
| Trichloroethene | 96 | 98 | 71 - 120 | 2 | 20 | | | |
| Xylenes, Total | 96 | 100 | 74 - 120 | 4 | 20 | | | |

| Surrogate | LCS % Rec | LCSD % Rec | Acceptance Limits |
|-----------------------------|-----------|------------|-------------------|
| 4-Bromofluorobenzene (Sur) | 105 | 101 | 77 - 120 |
| Dibromofluoromethane | 106 | 106 | 79 - 133 |
| 1,2-Dichloroethane-d4 (Sur) | 106 | 105 | 72 - 135 |
| Toluene-d8 (Sur) | 103 | 101 | 80 - 120 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

TestAmerica Chicago

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07/30/2009

Calculations are performed before rounding to avoid round-off errors in calculated results.

TestAmerica Chicago

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Quality Control Results

Client: Fehr-Graham & Associates

Method Blank - Batch: 500-68648

Lab Sample ID: MB 500-68648/22
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/29/2009 1248
Date Prepared: 07/29/2009 1248

| Analyte | Result | Qual | MDL | RL | |
|-----------------------------|--------------|------|--------------------------|--------|--|
| Acetone | <0.0050 | | 0.0012 | 0.0050 | |
| 1,1-Dichloroethane | <0.0010 | | 0.00018 | 0.0010 | |
| 1,2-Dichloroethane | <0.0010 | | 0.00022 | 0.0010 | |
| 1,1-Dichloroethene | <0.0010 | | 0.00022 | 0.0010 | |
| m&p-Xylene | <0.0020 | | 0.00023 | 0.0020 | |
| o-Xylene | <0.0010 | | 0.00012 | 0.0010 | |
| Tetrachloroethene | <0.0010 | | 0.00014 | 0.0010 | |
| 1,1,1-Trichloroethane | <0.0010 | | 0.00023 | 0.0010 | |
| Trichloroethene | <0.0010 | | 0.00020 | 0.0010 | |
| Xylenes, Total | <0.0020 | | 0.00033 | 0.0020 | |
| Surrogate | % Rec | | Acceptance Limits | | |
| 4-Bromofluorobenzene (Sur) | 103 | | 77 - 120 | | |
| Dibromofluoromethane | 101 | | 79 - 133 | | |
| 1,2-Dichloroethane-d4 (Sur) | 104 | | 72 - 135 | | |
| Toluene-d8 (Sur) | 103 | | 80 - 120 | | |

Job Number: 500-20221-1
Sdg Number: 500-20221-1

Method: 8260B
Preparation: 5030B

Analysis Batch: 500-68648
Prep Batch: N/A
Units: mg/L

Instrument ID: Agilent 6890N GC - 5973N
Lab File ID: 6M0729.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Client: Fehr-Graham & Associates

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 500-68648

LCS Lab Sample ID: LCS 500-68648/23
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/29/2009 1311
Date Prepared: 07/29/2009 1311

Analysis Batch: 500-68648

Instrument ID: Agilent 6890N GC - 5973N
Lab File ID: 6S0729.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 500-68648/24
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/29/2009 2158
Date Prepared: 07/29/2009 2158

Analysis Batch: 500-68648

Instrument ID: Agilent 6890N GC - 5973I
Lab File ID: 6T0729.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

| Analyte | % Rec. | | Limit | RPD | RPD Limit | LCS Qual | LCSD Qual |
|-----------------------|--------|------|----------|-----|-----------|----------|-----------|
| | LCS | LCSD | | | | | |
| Acetone | 88 | 88 | 29 - 152 | 3 | 20 | | |
| 1,1-Dichloroethane | 91 | 92 | 65 - 120 | 1 | 20 | | |
| 1,2-Dichloroethane | 98 | 102 | 62 - 120 | 5 | 20 | | |
| 1,1-Dichloroethene | 81 | 76 | 55 - 128 | 7 | 20 | | |
| m&p-Xylene | 94 | 92 | 74 - 120 | 2 | 20 | | |
| o-Xylene | 92 | 94 | 74 - 120 | 2 | 20 | | |
| Tetrachloroethene | 86 | 77 | 70 - 120 | 11 | 20 | | |
| 1,1,1-Trichloroethane | 93 | 89 | 64 - 122 | 5 | 20 | | |
| Trichloroethene | 91 | 91 | 71 - 120 | 0 | 20 | | |
| Xylenes, Total | 93 | 93 | 74 - 120 | 0 | 20 | | |

| Surrogate | LCS % Rec | LCSD % Rec | Acceptance Limits |
|-----------------------------|-----------|------------|-------------------|
| 4-Bromofluorobenzene (Sur) | 104 | 105 | 77 - 120 |
| Dibromofluoromethane | 106 | 112 | 79 - 133 |
| 1,2-Dichloroethane-d4 (Sur) | 104 | 111 | 72 - 135 |
| Toluene-d8 (Sur) | 108 | 103 | 80 - 120 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

TestAmerica Chicago

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Calculations are performed before rounding to avoid round-off errors in calculated results.

TestAmerica Chicago

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Fehr-Graham & Associates

Project: 09-233

Sample ID: 26301-3Q2009

Sample Characteristics: Groundwater remediation effluent

Sample to be collected in:

Number of samples: One (1)

FGA contact for questions: Incl Zirkle (315) 394-4700 or (815) 235-7643

Analyze for VOC's Method 8260 but only report for the following constituents:

1. Acetone
2. 1,1-Dichloromethane
3. 1,1-Dichloroethane
4. 1,2-Dichloroethene
5. 1,1,1-Trichloroethane
6. Trichloroethylene
7. Tetrachloroethylene
8. Total Xylenes

FEHR-GRAHAM & ASSOCIATES

CHAIN OF CUSTODY RECORD

500-20221

| Project Number: | 09-233 | Delivery Report To: (check one) | | LAB USE ONLY | | Page <u>1</u> of <u>1</u> |
|-----------------------------------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|--------------------------------------------------------------|----------------------|---------------------------|
| Turnaround Time (circle one): | Standard | <input checked="" type="checkbox"/> 221 East Violin Street Suite 200 Freeport, IL 61028 815-235-7643 phone 815-235-4632 fax bsloehr@fehgraham.com e-mail | | Log In # | Log In By | |
| Rush | | <input type="checkbox"/> 1920 Dairier Road Rockford, IL 61112 815-394-4700 phone 815-394-4702 fax bsloehr@fehgraham.com e-mail | | Lab Proj ID # | Sample Temperature | |
| For Rush Delivery, Specify Due Date: | | | | Received on ice | Y or N | Comments: |
| Delivery Method: (circle one) | Mail | | | Sampled By: Dan Sloehr / Fehr-Graham & Associates | | |
| | Fax | | | ANALYSIS REQUESTED (Specify Method if applicable) | | |
| | Email | Internal Routing To: Daniel Stehr | | VOC's Method 8260 (See attached sheet for reporting request) | | |
| SAMPLE IDENTIFICATION | DATE SAMPLED | TIME OF COLLECTION | COUNT | NUMBER AND TYPE OF CONTAINERS | | |
| 26301-3Q2009 | 7.27.09 | 1:40 PM | X | 1 FLASK HAND FRZON | GROUNDWATER EFFLUENT | X |
| COMMENTS: Sample sh. sped: UPS | | | | | | |
| Reinquished By: <i>Daniel Stehr</i> | Date: 7.27.09 | Time: 1pm | Received By: <i>JAT</i> | Date: 7.28.09 | Time: 10:20 | |
| Reinquished By: | Date: | Time: | Received By: | Date: | Time: | |
| Reinquished By: | Date: | Time: | Received By: | Date: | Time: | |

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\f\Documents\2009\09-233\2009 Annual Site Sampling Report\New Microsoft Office Word Document.docx

Login Sample Receipt Check List

Client: Fehr-Graham & Associates

Job Number: 500-20221-1
SDG Number: 500-20221-1

Login Number: 20221

List Source: TestAmerica Chicago

Creator: Lunt, Jeff T

List Number: 1

| Question | T / F / NA | Comment |
|-----------------------------------------------------------------------------------|------------|---------|
| Radioactivity either was not measured or, if measured, is at or below background. | True | |
| The cooler's custody seal, if present, is intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | 2.6 |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| CCC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| There are no discrepancies between the sample IDs on the containers and the COC. | True | |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs. | True | |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter. | True | |
| If necessary, staff have been informed of any short hold time or quick TAT needs. | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Is the Field Sampler's name present on COC? | True | |
| Sample Preservation Verified | True | |

Customer: Fehr-Graham & Associates
Project #: 09-233 Sauer Danfoss
Sample Date: 7/27/2009
Lab Name: TestAmerica Chicago
Job Number: 500-20221-1

| Analytical results for Water samples | | Exposure Routes for Specific SRQs | | | | Sample ID |
|--------------------------------------|-----------------------|-----------------------------------|--------|------------|--------|-----------|
| Method | Analyte | Ingestion | | Inhalation | | Result |
| | | Exptl | Actual | Exptl | Actual | |
| 8260B | 1,1,1-Trichloroethane | NRO | NRO | 0.2 | 1 | 0.044 |
| 8260B | 1,1-Dichloroethane | NRO | NRO | 0.7 | 3.5 | 0.0081 |
| 8260B | 1,1-Dichloroethene | NRO | NRO | 0.007 | 0.035 | <0.0010 |
| 8260B | 1,2-Dichloroethane | NRO | NRO | 0.005 | 0.025 | <0.0010 |
| 8260B | Acetone | NRO | NRO | 6.3 | 6.3 | <0.0050 |
| 8260B | Tetrachloroethene | NRO | NRO | 0.005 | 0.025 | <0.0010 |
| 8260B | Trichloroethene | NRO | NRO | 0.005 | 0.025 | <0.0010 |
| 8260B | Xylenes, Total | NRO | NRO | 10 | 10 | <0.0020 |

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 500-20221-1

SDG Number: 500-20221-1

Job Description: 09-233 Sauer Danfoss

For:

Fehr-Graham & Associates
221 E. Main Street, Suite 200
Freeport, IL 61032-4201

Attention: Ms. Amy Schlosser



Approved for release.
Donna L Ingersoll
Project Manager II
2/26/2010 10:22 AM

Donna L Ingersoll
Project Manager II
donna.ingersoll@testamericainc.com
02/26/2010
Revision: 1

cc: Ms. Donna Ingersoll
Ms. Erin Jarrett

These test results meet all the requirements of NELAC for accredited parameters.

The Lab Certification ID# is 100201.

All questions regarding this test report should be directed to the TestAmerica Project Manager whose signature appears on this report. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

TestAmerica Laboratories, Inc.
TestAmerica Chicago 2417 Bond Street, University Park, IL 60484
Tel (708) 534-5200 Fax (708) 534-5211 www.testamericainc.com



Job Narrative
500-20221-1

Comments

No additional comments.

Receipt

Report revised to correct analyte list. Removed 1,2-DCA and added cis- and trans-1,2-DCE.

All other samples were received in good condition within temperature requirements.

GC/MS VOA

No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: Fehr-Graham & Associates

Job Number: 500-20221-1
Sdg Number: 500-20221-1

| Lab Sample ID Analyte | Client Sample ID | Result / Qualifier | Reporting Limit | Units | Method |
|--------------------------|------------------|--------------------|--------------------|-------|--------|
| 500-20221-1 | 26301-3Q2009 | | | | |
| 1,1-Dichloroethane | | 0.0081 | 0.0010 | mg/L | 8260B |
| 1,1-Dichloroethene | | 0.012 | 0.0010 | mg/L | 8260B |
| Tetrachloroethene | | 0.53 | 0.010 | mg/L | 8260B |
| 1,1,1-Trichloroethane | | 0.044 | 0.0010 | mg/L | 8260B |
| Trichloroethene | | 0.019 | 0.0010 | mg/L | 8260B |
| cis-1,2-Dichloroethene | | 0.043 | 0.0010 | mg/L | 8260B |

METHOD SUMMARY

Client: Fehr-Graham & Associates

Job Number: 500-20221-1
Sdg Number: 500-20221-1

| Description | Lab Location | Method | Preparation Method |
|------------------------------------------------------|--------------------|----------------------------|--------------------|
| Matrix: Water | | | |
| Volatile Organic Compounds (GC/MS) Purge and Trap | TAL CHI TAL CHI | SW846 8260B SW846 5030B | |

Lab References:

TAL CHI = TestAmerica Chicago

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Fehr-Graham & Associates

Job Number: 500-20221-1
Sdg Number: 500-20221-1

| Method | Analyst | Analyst ID |
|-------------|------------------|------------|
| SW846 8260B | Alikpala, Elaine | EA |
| SW846 8260B | Drabek, Dave J | DJD |

SAMPLE SUMMARY

Client: Fehr-Graham & Associates

Job Number: 500-20221-1
Sdg Number: 500-20221-1

| Lab Sample ID | Client Sample ID | Client Matrix | Date/Time Sampled | Date/Time Received |
|---------------|------------------|---------------|-------------------|--------------------|
| 500-20221-1 | 26301-3Q2009 | Water | 07/27/2009 1300 | 07/28/2009 1020 |

SAMPLE RESULTS

Ms. Amy Schlosser
Fehr-Graham & Associates
221 E. Main Street, Suite 200
Freeport, IL 61032-4201

Job Number: 500-20221-1
Sdg Number: 500-20221-1

Client Sample ID: 26301-3Q2009
Lab Sample ID: 500-20221-1

Date Sampled: 07/27/2009 1300
Date Received: 07/28/2009 1020
Client Matrix: Water

| Analyte | Result/Qualifier | Unit | MDL | RL | Dilution |
|-----------------------------------|------------------|------|-------------------|-----------------|----------|
| Method: 8260B | | | Date Analyzed: | 07/29/2009 0111 | |
| Prep Method: 5030B | | | Date Prepared: | 07/29/2009 0111 | |
| Acetone | <0.0050 | mg/L | 0.0012 | 0.0050 | 1.0 |
| 1,1-Dichloroethane | 0.0081 | mg/L | 0.00018 | 0.0010 | 1.0 |
| 1,1-Dichloroethene | 0.012 | mg/L | 0.00022 | 0.0010 | 1.0 |
| 1,1,1-Trichloroethane | 0.044 | mg/L | 0.00023 | 0.0010 | 1.0 |
| Trichloroethene | 0.019 | mg/L | 0.00020 | 0.0010 | 1.0 |
| Xylenes, Total | <0.0020 | mg/L | 0.00033 | 0.0020 | 1.0 |
| trans-1,2-Dichloroethene | <0.0010 | mg/L | 0.00017 | 0.0010 | 1.0 |
| cis-1,2-Dichloroethene | 0.043 | mg/L | 0.00021 | 0.0010 | 1.0 |
| Surrogate | | | Acceptance Limits | | |
| 4-Bromofluorobenzene (Surr) | 102 | % | 77 - 120 | | |
| Dibromofluoromethane | 103 | % | 79 - 133 | | |
| 1,2-Dichloroethane-d4 (Surr) | 109 | % | 72 - 135 | | |
| Toluene-d8 (Surr) | 99 | % | 80 - 120 | | |
| Method: 8260B Run Type: DL | | | Date Analyzed: | 07/29/2009 2252 | |
| Prep Method: 5030B | | | Date Prepared: | 07/29/2009 2252 | |
| Tetrachloroethene | 0.53 | mg/L | 0.0014 | 0.010 | 10 |
| Surrogate | | | Acceptance Limits | | |
| 4-Bromofluorobenzene (Surr) | 103 | % | 77 - 120 | | |
| Dibromofluoromethane | 105 | % | 79 - 133 | | |
| 1,2-Dichloroethane-d4 (Surr) | 110 | % | 72 - 135 | | |
| Toluene-d8 (Surr) | 102 | % | 80 - 120 | | |

DATA REPORTING QUALIFIERS

| <u>Lab Section</u> | <u>Qualifier</u> | <u>Description</u> |
|---------------------------|-------------------------|---------------------------|
|---------------------------|-------------------------|---------------------------|

QUALITY CONTROL RESULTS

Quality Control Results

Client: Fehr-Graham & Associates

Job Number: 500-20221-1
Sdg Number: 500-20221-1

QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|---------------------------------|------------------------------|--------------|---------------|--------|------------|
| GC/MS VOA | | | | | |
| Analysis Batch:500-68540 | | | | | |
| LCS 500-68540/22 | Lab Control Sample | T | Water | 8260B | |
| LCSD 500-68540/23 | Lab Control Sample Duplicate | T | Water | 8260B | |
| MB 500-68540/21 | Method Blank | T | Water | 8260B | |
| 500-20221-1 | 26301-3Q2009 | T | Water | 8260B | |
| Analysis Batch:500-68648 | | | | | |
| LCS 500-68648/23 | Lab Control Sample | T | Water | 8260B | |
| LCSD 500-68648/24 | Lab Control Sample Duplicate | T | Water | 8260B | |
| MB 500-68648/22 | Method Blank | T | Water | 8260B | |
| 500-20221-1DL | 26301-3Q2009 | T | Water | 8260B | |

Report Basis

T = Total

Quality Control Results

Client: Fehr-Graham & Associates

Job Number: 500-20221-1
Sdg Number: 500-20221-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

| Lab Sample ID | Client Sample ID. | BFB %Rec | DBFM %Rec | DCA %Rec | TOL %Rec |
|-------------------|-------------------|-------------|--------------|-------------|-------------|
| 500-20221-1 | 26301-3Q2009 | 102 | 103 | 109 | 99 |
| 500-20221-1 DL | 26301-3Q2009 DL | 103 | 105 | 110 | 102 |
| MB 500-68540/21 | | 102 | 104 | 107 | 107 |
| MB 500-68648/22 | | 103 | 101 | 104 | 103 |
| LCS 500-68540/22 | | 105 | 108 | 106 | 103 |
| LCS 500-68648/23 | | 104 | 106 | 104 | 108 |
| LCSD 500-68540/23 | | 101 | 108 | 105 | 101 |
| LCSD 500-68648/24 | | 105 | 112 | 111 | 103 |

| Surrogate | Acceptance Limits |
|------------------------------------|-------------------|
| BFB = 4-Bromofluorobenzene (Surr) | 77-120 |
| DBFM = Dibromofluoromethane | 79-133 |
| DCA = 1,2-Dichloroethane-d4 (Surr) | 72-135 |
| TOL = Toluene-d8 (Surr) | 80-120 |

Quality Control Results

Client: Fehr-Graham & Associates

Job Number: 500-20221-1
Sdg Number: 500-20221-1

Method Blank - Batch: 500-68540

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 500-68540/21

Analysis Batch: 500-68540

Instrument ID: MS06

Client Matrix: Water

Prep Batch: N/A

Lab File ID: 6M0728.D

Dilution: 1.0

Units: mg/L

Initial Weight/Volume: 10 mL

Date Analyzed: 07/28/2009 1607

Final Weight/Volume: 10 mL

Date Prepared: 07/28/2009 1607

| Analyte | Result | Qual | MDL | RL |
|------------------------------|---------|------|-------------------|--------|
| Acetone | <0.0050 | | 0.0012 | 0.0050 |
| 1,1-Dichloroethane | <0.0010 | | 0.00018 | 0.0010 |
| 1,2-Dichloroethane | <0.0010 | | 0.00022 | 0.0010 |
| 1,1-Dichloroethene | <0.0010 | | 0.00022 | 0.0010 |
| m&p-Xylene | <0.0020 | | 0.00023 | 0.0020 |
| o-Xylene | <0.0010 | | 0.00012 | 0.0010 |
| Tetrachloroethene | <0.0010 | | 0.00014 | 0.0010 |
| 1,1,1-Trichloroethane | <0.0010 | | 0.00023 | 0.0010 |
| Trichloroethene | <0.0010 | | 0.00020 | 0.0010 |
| Xylenes, Total | <0.0020 | | 0.00033 | 0.0020 |
| trans-1,2-Dichloroethene | <0.0010 | | 0.00017 | 0.0010 |
| cis-1,2-Dichloroethene | <0.0010 | | 0.00021 | 0.0010 |
| Surrogate | % Rec | | Acceptance Limits | |
| 4-Bromofluorobenzene (Surr) | 102 | | 77 - 120 | |
| Dibromofluoromethane | 104 | | 79 - 133 | |
| 1,2-Dichloroethane-d4 (Surr) | 107 | | 72 - 135 | |
| Toluene-d8 (Surr) | 107 | | 80 - 120 | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Fehr-Graham & Associates

Job Number: 500-20221-1
Sdg Number: 500-20221-1

Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 500-68540

Method: 8260B

Preparation: 5030B

LCS Lab Sample ID: LCS 500-68540/22
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 07/28/2009 1521
 Date Prepared: 07/28/2009 1521

Analysis Batch: 500-68540
 Prep Batch: N/A
 Units: mg/L

Instrument ID: MS06
 Lab File ID: 6S0728.D
 Initial Weight/Volume: 10 mL
 Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 500-68540/23
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 07/29/2009 0048
 Date Prepared: 07/29/2009 0048

Analysis Batch: 500-68540
 Prep Batch: N/A
 Units: mg/L

Instrument ID: MS06
 Lab File ID: 6T0728.D
 Initial Weight/Volume: 10 mL
 Final Weight/Volume: 10 mL

| Analyte | % Rec | | Limit | RPD | RPD Limit | LCS Qual | LCSD Qual |
|------------------------------|-----------|------|------------|-----|-------------------|----------|-----------|
| | LCS | LCSD | | | | | |
| Acetone | 75 | 86 | 29 - 152 | 14 | 20 | | |
| 1,1-Dichloroethane | 92 | 96 | 65 - 120 | 4 | 20 | | |
| 1,2-Dichloroethane | 100 | 102 | 62 - 120 | 2 | 20 | | |
| 1,1-Dichloroethene | 86 | 86 | 55 - 129 | 1 | 20 | | |
| m&p-Xylene | 96 | 101 | 74 - 120 | 5 | 20 | | |
| o-Xylene | 96 | 99 | 74 - 120 | 3 | 20 | | |
| Tetrachloroethene | 85 | 91 | 70 - 120 | 7 | 20 | | |
| 1,1,1-Trichloroethane | 95 | 98 | 64 - 122 | 3 | 20 | | |
| Trichloroethene | 96 | 98 | 71 - 120 | 2 | 20 | | |
| Xylenes, Total | 96 | 100 | 74 - 120 | 4 | 20 | | |
| trans-1,2-Dichloroethene | 92 | 95 | 66 - 120 | 2 | 20 | | |
| cis-1,2-Dichloroethene | 98 | 100 | 72 - 123 | 2 | 20 | | |
| Surrogate | LCS % Rec | | LCSD % Rec | | Acceptance Limits | | |
| 4-Bromofluorobenzene (Surr) | 105 | | 101 | | 77 - 120 | | |
| Dibromofluoromethane | 108 | | 108 | | 79 - 133 | | |
| 1,2-Dichloroethane-d4 (Surr) | 106 | | 105 | | 72 - 135 | | |
| Toluene-d8 (Surr) | 103 | | 101 | | 80 - 120 | | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Fehr-Graham & Associates

Job Number: 500-20221-1
Sdg Number: 500-20221-1

Method Blank - Batch: 500-68648

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 500-68648/22

Analysis Batch: 500-68648

Instrument ID: MS06

Client Matrix: Water

Prep Batch: N/A

Lab File ID: 6M0729.D

Dilution: 1.0

Units: mg/L

Initial Weight/Volume: 10 mL

Date Analyzed: 07/29/2009 1248

Final Weight/Volume: 10 mL

Date Prepared: 07/29/2009 1248

| Analyte | Result | Qual | MDL | RL |
|------------------------------|---------|------|-------------------|--------|
| Acetone | <0.0050 | | 0.0012 | 0.0050 |
| 1,1-Dichloroethane | <0.0010 | | 0.00018 | 0.0010 |
| 1,2-Dichloroethane | <0.0010 | | 0.00022 | 0.0010 |
| 1,1-Dichloroethene | <0.0010 | | 0.00022 | 0.0010 |
| m&p-Xylene | <0.0020 | | 0.00023 | 0.0020 |
| o-Xylene | <0.0010 | | 0.00012 | 0.0010 |
| Tetrachloroethene | <0.0010 | | 0.00014 | 0.0010 |
| 1,1,1-Trichloroethane | <0.0010 | | 0.00023 | 0.0010 |
| Trichloroethene | <0.0010 | | 0.00020 | 0.0010 |
| Xylenes, Total | <0.0020 | | 0.00033 | 0.0020 |
| trans-1,2-Dichloroethene | <0.0010 | | 0.00017 | 0.0010 |
| cis-1,2-Dichloroethene | <0.0010 | | 0.00021 | 0.0010 |
| Surrogate | % Rec | | Acceptance Limits | |
| 4-Bromofluorobenzene (Surr) | 103 | | 77 - 120 | |
| Dibromofluoromethane | 101 | | 79 - 133 | |
| 1,2-Dichloroethane-d4 (Surr) | 104 | | 72 - 135 | |
| Toluene-d8 (Surr) | 103 | | 80 - 120 | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Fehr-Graham & Associates

Job Number: 500-20221-1
Sdg Number: 500-20221-1

Lab Control Sample - Batch: 500-68648

Method: 8260B
Preparation: 5030B

Lab Sample ID: LCS 500-68648/23
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/29/2009 1311
Date Prepared: 07/29/2009 1311

Analysis Batch: 500-68648
Prep Batch: N/A
Units: mg/L

Instrument ID: MS06
Lab File ID: 6S0729.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|------------------------------|--------------|--------|--------|-------------------|------|
| Acetone | 0.0250 | 0.0220 | 88 | 29 - 152 | |
| 1,1-Dichloroethane | 0.0250 | 0.0226 | 91 | 65 - 120 | |
| 1,2-Dichloroethane | 0.0250 | 0.0241 | 96 | 62 - 120 | |
| 1,1-Dichloroethene | 0.0250 | 0.0203 | 81 | 55 - 129 | |
| m&p-Xylene | 0.0500 | 0.0468 | 94 | 74 - 120 | |
| o-Xylene | 0.0250 | 0.0231 | 92 | 74 - 120 | |
| Tetrachloroethene | 0.0250 | 0.0215 | 86 | 70 - 120 | |
| 1,1,1-Trichloroethane | 0.0250 | 0.0232 | 93 | 64 - 122 | |
| Trichloroethene | 0.0250 | 0.0228 | 91 | 71 - 120 | |
| Xylenes, Total | 0.0750 | 0.0699 | 93 | 74 - 120 | |
| trans-1,2-Dichloroethene | 0.0250 | 0.0224 | 90 | 66 - 120 | |
| cis-1,2-Dichloroethene | 0.0250 | 0.0240 | 96 | 72 - 123 | |
| Surrogate | | % Rec | | Acceptance Limits | |
| 4-Bromofluorobenzene (Surr) | | 104 | | 77 - 120 | |
| Dibromofluoromethane | | 106 | | 79 - 133 | |
| 1,2-Dichloroethane-d4 (Surr) | | 104 | | 72 - 135 | |
| Toluene-d8 (Surr) | | 108 | | 80 - 120 | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

FEHR-GRAHAM & ASSOCIATES

CHAIN OF CUSTODY RECORD

500-20221

| | | | | | | | | | | | | | | | | | |
|-----------------------------------------|---------------|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------|------|------|-------|------|-------|----------------------|-------------------------------------------------------------------|---------------------------------------------------|----------------------------|--|--|--|
| Project Number : | 09-233 | Deliver Report To : | | | | | | | | | | | LAB USE ONLY | Page <u>1</u> of <u>1</u> | | | |
| | | (check one) | <input checked="" type="checkbox"/> X | | | | | | | | | | Login ID # _____ | | | | |
| Turnaround Time (circle one): | | <input checked="" type="checkbox"/> Standard | 221 East Main Street Suite 200 Freeport, IL 61032 815-235-7643 phone 815-235-4632 fax aschlosser@fehr-graham.com e-mail | | | | | | | | | | Login By _____ | | | | |
| | | <input type="checkbox"/> Rush | | | | | | | | | | | Lab Proj/ID # _____ | | | | |
| For Rush Delivery, Specify Due Date: | | <input type="checkbox"/> | | | | | | | | | | Sample Temperature _____ | | Retain Samples | | | |
| | | | | | | | | | | | | Received on ice Y or N | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N | | | |
| Delivery Method : | | <input checked="" type="checkbox"/> Mail | | | | | | | | | | | Comments: | | | | |
| (circle one) | | <input type="checkbox"/> Fax | <input type="checkbox"/> 1920 Daimler Road Rockford, IL 61112 815-394-4700 phone 815-394-4702 fax bmaluzzi@fehr-graham.com e-mail | | | | | | | | | | | | | | |
| | | <input type="checkbox"/> Email | | | | | | | | | | | Sampled By: Dan Stoehr / Fehr-Graham & Associates | | | | |
| Internal Routing To : Daniel Stoehr | | | | | | | | | | | | ANALYSIS REQUESTED (Specify Method if applicable) | | | | | |
| SAMPLE IDENTIFICATION | DATE SAMPLED | TIME OF COLLECTION | COMP | GRAB | HCl | NaOH | HNO3 | H2SO4 | NONE | OTHER | SAMPLE DESCRIPTION | VOC's - Method 8260 - (See attached sheet for reporting requests) | | | | | |
| 26301-3Q2009 | 7.27.09 | 1:00 PM | | X | 3 | | | | | | Groundwater Effluent | X | | | | | |
| COMMENTS: Sample shipped UPS | | | | | | | | | | | | | | | | | |
| Relinquished By: <i>Daniel Stoehr</i> | Date: 7.27.09 | Time: 1pm | Received By: <i>JST</i> | Date: 7.28.09 | Time: 1020 | | | | | | | | | | | | |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: | | | | | | | | | | | | |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: | | | | | | | | | | | | |

Fehr-Graham & Associates

Project: 09-233

Sample ID: 26301-3Q2009

Sample Characteristics: Groundwater remediation effluent

Sample to be collected on:

Number of samples: One (1)

FGA contact for questions: Joel Zirkle (815) 394-4700 or (815) 235-7643

Analyze for VOC's Method 8260 but only report for the following constituents:

1. Acetone
2. 1,1-Dichloroethane
3. 1,1-Dichloroethene
4. 1,2-Dichloroethene
5. 1,1,1-Trichloroethane
6. Trichloroethene
7. Tetrachloroethene
8. Total Xylenes

Login Sample Receipt Check List

Client: Fehr-Graham & Associates

Job Number: 500-20221-1
SDG Number: 500-20221-1

Login Number: 20221

List Source: TestAmerica Chicago

Creator: Lunt, Jeff T

List Number: 1

| Question | T / F / NA | Comment |
|----------------------------------------------------------------------------------|------------|---------|
| Radioactivity either was not measured or, if measured, is at or below background | True | |
| The cooler's custody seal, if present, is intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | 2.6 |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| There are no discrepancies between the sample IDs on the containers and the COC. | True | |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter. | True | |
| If necessary, staff have been informed of any short hold time or quick TAT needs | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Is the Field Sampler's name present on COC? | True | |
| Sample Preservation Verified | True | |



FEHR-GRAHAM & ASSOCIATES
Engineering and Science Consultants

Hans A. Anderson, P.E.
R. Todd Weegens, P.E.
Mick W. Gronewold, P.E.
Ken R. Thompson
Adam G. Holder, P.E.

Civil

Surveying

Municipal

Structural

EHS

IT

221 E. Main Street • Suite 200 • Freeport, IL 61032
E-mail: fga@fehr-graham.com

Ph: 815/235-7643 • Fax: 815/235-4632
Web: www.fehr-graham.com

January 6, 2010

FILE COPY

Mr. Gary Erickson
Sauer-Danfoss (US) Company
2800 East 13th Street
Ames, IA 50010

RE: Non-Domestic Waste Pretreatment Program Quarterly Report – 4th Quarter 2009

Dear Mr. Erickson:

Enclosed please find three copies of the above-referenced documents. Please review for completeness and accuracy, and if satisfactory sign and date where indicated. The original set, along with the enclosed cover letter, should be forwarded to the Water and Pollution Control Department for the City of Ames. For your convenience, certified mailing labels are enclosed. Please retain two additional copies and I will file when next on-site.

If you have any questions regarding the enclosed documents, please do not hesitate to contact this office.

Sincerely,

Daniel M. Stoehr
Project Environmental Scientist

DMS:mll
I:\Documents\SEC 2009\09-313\DMS 09-313 - 4th Qtr Wastewater to City of Ames.doc
Enclosure



FEHR-GRAHAM & ASSOCIATES
Engineering and Science Consultants

Civil

Surveying

Municipal

Structural

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IT

221 E. Main Street • Suite 200 • Freeport, IL 61032
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Ph: 815/235-7643 • Fax: 815/235-4632
Web: www.fehr-graham.com

CERTIFIED MAIL NO. 7008 0500 0000 0550 2017
RETURN RECEIPT REQUESTED

January 7, 2010

FILE COPY

City of Ames, Iowa
Water and Pollution Control Department
300 East Fifth Street, Building 1
Ames, IA 50010

RE: Non-Domestic Waste Pretreatment Program Quarterly Report – 4th Quarter 2009
Sauer-Danfoss (US) Company
2800 East 13th Street
Ames, IA 50010
Facility Permit No. 6593-7

Dear Sir/Madam:

Enclosed, please find the Non-Domestic Waste Pretreatment Program Quarterly Report for wastewater discharge from the above-referenced facility for the 4th quarter of 2009. Also enclosed are copies of the analytical reports from Keystone Labs and Test America for the analysis of wastewater and groundwater remediation respectively and a summary of monthly flow in gals/month from the groundwater remediation project.

Should you have any questions regarding these documents, please do not hesitate to contact this office.

Sincerely,

Daniel M. Stoehr
Project Environmental Scientist

DMS:mll
I:\Documents\SEC 2009\09-313\DMIS 09-313 - 4th Qtr Wastewater to City of Ames.doc
Enclosure

cc: Sauer-Danfoss (with enclosures)

Non-Domestic Waste Pretreatment Program

Quarterly Report

(Non-Significant, Non-Domestic Contributor)

4th Quarter 2009

Reporting Period: 10/1/2009 to 12/31/2009

Submit results on or before the 10th of the month following the end of the quarter

Facility: Sauer-Danfoss
 Permit No: 6593-7
 Facility Contact: Gary Erickson
 Facility Phone No: 515-239-6000
 Sampling Location: Front Parking Lot North Manhole (Wastewater)/On-Site Wastewater Treatment
 Sample Type: Sample Port (GW Remediation)
 Sample Date: Grab & 24 Hour Composite
 10/15/09 (GW Remediation)/ 10/7/09 (Wastewater)

| Analyte | Permit Limit Mg/L | Sample Results Mg/L |
|-------------------------------|------------------------------|---------------------------------|
| Facility | Sauer Danfoss 2800 East 13th | |
| Flow | Gals/Day | 15,245 |
| pH | 6-10 pH | 8.20 |
| TSS | 1,500 | 212 |
| Cyanide | 0.55 | <0.007 |
| Ammonia (NH3) | 200 | 32 |
| Total Kjeldahl Nitrogen (TKN) | 250 | 100 |
| Oil & Grease | 300 | 35 |
| CBOD 5 | 1,500 | 324 |
| COD | 2,500 | 1240 |
| Molybdenum | 0.19 | 0.018 |
| <u>GW remediation</u> | | Max Expected Concentration ug/L |
| Flow (remediation) | Gals/Qttr | 628,031 |
| Acetone | 44 | <5 |
| 1,1-Dichloroethane | 370 | 10 |
| 1,1-Dichloroethene | 170 | 12 |
| cis-1,2-Dichloroethene | 490 | 58 |
| Tetrachloroethene | 1700 | 410 |
| 1,1,1-Trichloroethane | 650 | 48 |
| Trichloroethene | 110 | 21 |
| Total Xylenes | 11 | <2 |

Note: Please attach sample results from Laboratory

Process or Treatment Change: None

Additional Comments: Attached e-mail from Keystone Labs explains difference in flow data of Keystone Report. Correct volume of 15,245 gpd was used above.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person (s) who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true and accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signed Mary Erickson
 Authorized Representative

Date 01-11-10

Dan Stoehr

From: Sue Thompson [sthompson@keystonelabresults.com]
Sent: Monday, November 23, 2009 8:29 AM
To: Dan Stoehr
Subject: RE: Flow Report

Dan -

The following is the explanation I received from our sampling technician:

Sampling Event - Sauer Danfoss - 7/8 October 2009

At 03:30 AM the section tube became clogged with debris from the sanitary system. The sampler attempted to suction liquid until the power failed. the battery maintained enough power to continue monitoring flow. 60 samples were successfully taken during the 24hr sampling period.

Please let me know if you need anything further.

Sue

Visit us at www.keystonelabs.com

Sue Thompson
Project Manager I
Keystone Laboratories, Inc.
600 East 17th Street South
Newton, IA 50208
641-792-8451
sthompson@keystonelabs.com

Confidentiality Notice:

Because Access to receiving equipment is not under our control, Keystone Laboratories, Inc. cannot be responsible for the confidentiality of electronically transmitted data unless prior arrangements have been made.

From: Dan Stoehr [mailto:DStoehr@fehr-graham.com]
Sent: Monday, November 16, 2009 2:30 PM
To: sthompson@keystonelabs.com
Subject: RE: Flow Report

Status?

Thanks.

Dan

From: Sue Thompson [mailto:sthompson@keystonelabresults.com]
Sent: Friday, November 13, 2009 2:30 PM
To: Dan Stoehr
Subject: Flow Report

Hey Dan -

I just wanted to let you I'm not ignoring you :)

Jim has been out all week, but we're hoping to have him back on Monday. I apologize for the



ANALYTICAL REPORT

Work Order: 19J0319

October 16, 2009

Page 1 of 16

Gary Erickson
Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

Date Received: 10/07/2009 10:40AM
Collector: Pryke
Phone: 515-239-6539
PO Number:

Project: Quarterly Waste Pretreatment

Project Number: Pretreatment

| Analyte | Result | MRL | Batch | Method | Analyst | Analyzed | Qualifier |
|------------------------------|--------------------------------|-------|---------|------------------|---------|---------------------------|-----------|
| 19J0319-01 | From Parking Lot North Manhole | | | Matrix: Water | | Collected: 10/07/09 09:30 | |
| CBOD (5 day) | 324 mg/l | 4 | 1J90802 | SM 5210 B | JRP | 10/08/09 6:58 | |
| Cyanide, total | <0.007 mg/l | 0.007 | 1J91224 | 4500CN-E | DRB | 10/12/09 9:10 | |
| Chemical Oxygen Demand | 1240 mg/l | 200 | 1J91436 | EPA 410.4 | WAS | 10/15/09 15:01 | |
| Nitrogen, Ammonia | 32.0 mg/l | 1.0 | 1J91202 | SM 4500-NH3 B.E. | SAI | 10/12/09 12:17 | |
| Oil/Grease, animal/vegetable | 33 µg/l | 4 | 1J91250 | EPA 1664 | DRB | 10/13/09 9:00 | |
| Oil/Grease, petroleum | <1 mg/l | 4 | 1J91250 | EPA 1664 | DRB | 10/13/09 9:00 | |
| Oil and Grease | 35 mg/l | 4 | 1J91250 | EPA 1664 | DRB | 10/13/09 9:00 | |
| pH | 8.2 pH | 0.5 | 1J90746 | SM 4500 H+ B | TMR | 10/07/09 15:00 | I-03 |
| Nitrogen, Kjeldahl, total | 99.7 mg/l | 1.00 | 1J91230 | EPA 351.2 | WAS | 10/14/09 8:05 | |
| Solids, total suspended | 212 mg/l | 7 | 1J91301 | USGS I-3765-S3 | LJG | 10/13/09 7:37 | |
| Molybdate, total | 0.018 mg/l | 0.010 | 1J90833 | EPA 200.7 | RVV | 10/14/09 14:58 | |

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted. MRL = Method Reporting Limit.

Phone 641-792-8451

600 East 17th Street South
Newton, IA 50208

Fax 641-792-7989



Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

October 16, 2009
Page 2 of 16

Work Order: 19J0319

Determination of Conventional Chemistry Parameters - Quality Control

Keystone Laboratories, Inc. - Newton

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limit | RPD | RPD Limit | Notes |
|----------------------------------|--------|-----------------|-------|-------------|---------------|-----------|------------|-----|-----------|---------------------------------------|
| Batch 19B0622 - 1B90409 | | | | | | | | | | |
| Cal Standard (19B0622-CAL1) | | | | | | | | | | Prepared: 02/06/09 Analyzed: 08/11/09 |
| Chemical Oxygen Demand | 2.70 | | mg/l | | | 0.0000 | | | | |
| Cal Standard (19B0622-CAL2) | | | | | | | | | | Prepared: 02/06/09 Analyzed: 08/11/09 |
| Chemical Oxygen Demand | 8.82 | | mg/l | | | 10.0000 | NR.2 | | | |
| Cal Standard (19B0622-CAL3) | | | | | | | | | | Prepared: 02/06/09 Analyzed: 08/11/09 |
| Chemical Oxygen Demand | 18.1 | | mg/l | | | 20.0000 | 90.7 | | | |
| Cal Standard (19B0622-CAL4) | | | | | | | | | | Prepared: 02/06/09 Analyzed: 08/11/09 |
| Chemical Oxygen Demand | 73.5 | | mg/l | | | 75.0000 | 98.0 | | | |
| Cal Standard (19B0622-CAL5) | | | | | | | | | | Prepared: 02/06/09 Analyzed: 08/11/09 |
| Chemical Oxygen Demand | 103 | | mg/l | | | 100.0000 | 103 | | | |
| Cal Standard (19B0622-CAL6) | | | | | | | | | | Prepared: 02/06/09 Analyzed: 08/11/09 |
| Chemical Oxygen Demand | 149 | | mg/l | | | 150.0000 | 99.4 | | | |
| Calibration Check (19B0622-CCV1) | | | | | | | | | | Prepared: 02/06/09 Analyzed: 08/11/09 |
| Chemical Oxygen Demand | 0.00 | | mg/l | | | 75.0000 | NR-120 | | | |
| Batch 19B1009 - 1B91004 | | | | | | | | | | |
| Cal Standard (19B1009-CAL1) | | | | | | | | | | Prepared & Analyzed: 02/10/09 |
| Cyanide, total | -0.003 | | mg/l | | | 0.00000 | | | | |
| Cal Standard (19B1009-CAL2) | | | | | | | | | | Prepared & Analyzed: 02/10/09 |
| Cyanide, total | 0.003 | | mg/l | | | 0.0100000 | 84.4 | | | |

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Phone 641-792-8451

600 East 17th Street South
Newton, IA 50208

Fax 641-792-7989



Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

Work Order: 19J0319



October 16, 2009
Page 3 of 16

Determination of Conventional Chemistry Parameters - Quality Control
Keystone Laboratories, Inc. - Newton

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | Limits | RPD | RPD Limit | Notes |
|----------------------------------|--------|-----------------|-------|-------------|---------------|------|--------|-----|-----------|---------------------------------------|
| Batch 19B1009 - 1B91004 | | | | | | | | | | |
| Cd Standard (19B1009-CAL3) | 0.040 | | mg/l | 0.040000 | 100 | | | | | Prepared & Analyzed: 02/10/09 |
| Cd Standard (19B1009-CAL4) | 0.083 | | mg/l | 0.080000 | 104 | | | | | Prepared & Analyzed: 02/10/09 |
| Cd Standard (19B1009-CAL5) | 0.165 | | mg/l | 0.160000 | 105 | | | | | Prepared & Analyzed: 02/10/09 |
| Cd Standard (19B1009-CAL6) | 0.317 | | mg/l | 0.320000 | 98.9 | | | | | Prepared & Analyzed: 02/10/09 |
| Calibration Check (19B1009-CCV1) | 0.093 | | mg/l | 0.100000 | 93.0 | | 90-110 | | | Prepared & Analyzed: 02/10/09 |
| Batch 19J1220 - 1J91224 | | | | | | | | | | |
| Calibration Check (19J1220-CCV1) | 0.106 | | mg/l | 0.100000 | 106 | | 90-110 | | | Prepared & Analyzed: 10/12/09 |
| Calibration Check (19J1220-CCV2) | 0.091 | | mg/l | 0.100000 | 90.5 | | 90-110 | | | Prepared: 10/12/09 Analyzed: 10/13/09 |
| Instrument Blank (19J1220-(BL1)) | ND | 0.007 | mg/l | | | | | | | Prepared & Analyzed: 10/12/09 |
| Instrument Blank (19J1220-(BL2)) | ND | 0.007 | mg/l | | | | | | | Prepared: 10/12/09 Analyzed: 10/13/09 |

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted. MRL = Method Reporting Limit.

Phone 641-792-8451

600 East 17th Street South
Newton, IA 50208
Fax 641-792-7989



Keystone
LABORATORIES, INC.

Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

Work Order: 19J0319

October 16, 2009
Page 4 of 16

Determination of Conventional Chemistry Parameters - Quality Control
Keystone Laboratories, Inc. - Newton

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | Limits | RPD | RPD Limit | Notes |
|-----------------------------------|--------|-----------------|-------|-------------|---------------|------|--------|-----|-----------|---------------------------------------|
| Batch 19J1220 - 1J91224 | | | | | | | | | | |
| Initial Cal Check (19J1220-(CV1)) | 0.104 | | mg/l | 0.100000 | 104 | | 90-110 | | | Prepared & Analyzed: 10/12/09 |
| Initial Cal Check (19J1220-(CV2)) | 0.091 | | mg/l | 0.100000 | 90.5 | | 90-110 | | | Prepared: 10/12/09 Analyzed: 10/13/09 |
| Batch 19J1401 - 1J91230 | | | | | | | | | | |
| Calibration Check (19J1401-CCV1) | 10.2 | | mg/l | 10.0000 | 102 | | 90-110 | | | Prepared & Analyzed: 10/14/09 |
| Calibration Check (19J1401-CCV2) | 10.4 | | mg/l | 10.0000 | 104 | | 90-110 | | | Prepared & Analyzed: 10/14/09 |
| Calibration Check (19J1401-CCV3) | 10.3 | | mg/l | 10.0000 | 103 | | 90-110 | | | Prepared & Analyzed: 10/14/09 |
| Calibration Check (19J1401-CCV4) | 10.8 | | mg/l | 10.0000 | 108 | | 90-110 | | | Prepared & Analyzed: 10/14/09 |
| Calibration Check (19J1401-CCV5) | 10.4 | | mg/l | 10.0000 | 104 | | 90-110 | | | Prepared & Analyzed: 10/14/09 |
| Batch 19J1419 - 1J91436 | | | | | | | | | | |
| Calibration Check (19J1419-CCV1) | 74.8 | | mg/l | 75.0000 | 99.7 | | 80-120 | | | Prepared: 10/14/09 Analyzed: 10/15/09 |
| Chemical Oxygen Demand | | | | | | | | | | |

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted. MRL = Method Reporting Limit.

Phone 641-792-8451

600 East 17th Street South
Newton, IA 50208
Fax 641-792-7989



Sauer-Danfoss
2800 E. 13th St.
Ames, IA 50010

Work Order: 19J0319



MEMBER
ACIL

October 16, 2009
Page 5 of 16

Determination of Conventional Chemistry Parameters - Quality Control

Keystone Laboratories, Inc. - Newton

| Analyte | Result | Reporting Limit | Unit | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------------------------------------------|--------------------|-----------------|------|-------------|-------------------------------|------|-------------|------|-----------|-------|
| Batch 19J1419 - J191436 | | | | | | | | | | |
| (Initial Cd Check (19J1419-ICV1)) | | | | | | | | | | |
| Chemical Oxygen Demand | 74.3 | ng/l | | 75.0000 | | 99.7 | 80-120 | | | |
| Batch 1J90746 - Wet Chem Preparation | | | | | | | | | | |
| Duplicate (1J90746-DUP1) | Source: 19J0203-01 | | | | Prepared & Analyzed: 10/07/09 | | | | | |
| pH | 7.0 | 0.5 | pH | 7.0 | | 0.00 | 10 | 1-03 | | |
| Duplicate (1J90746-DUP2) | Source: 19J0374-01 | | | | Prepared & Analyzed: 10/07/09 | | | | | |
| pH | 7.3 | 0.5 | pH | 7.3 | | 0.00 | 10 | 1-03 | | |
| Reference (1J90746-SRM1) | | | | | Prepared & Analyzed: 10/07/09 | | | | | |
| pH | 7.0 | 0.5 | pH | 7.00000 | | 99.6 | 98.5-101.5 | | | 1-03 |
| Reference (1J90746-SRM2) | | | | | Prepared & Analyzed: 10/07/09 | | | | | |
| pH | 7.0 | 0.5 | pH | 7.00000 | | 99.6 | 98.5-101.5 | | | 1-03 |
| Batch 1J90802 - General Prep Micro | | | | | | | | | | |
| Blank (1J90802-BLK1) | ND | 4 | mg/l | | Prepared & Analyzed: 10/08/09 | | | | | |
| CBOD (5 day) | ND | 4 | mg/l | | | | | | | |
| Duplicate (1J90802-DUP1) | Source: 19J0345-05 | | | | Prepared & Analyzed: 10/08/09 | | | | | |
| CBOD (5 day) | 894 | 4 | mg/l | 921 | | 2.98 | 30 | | | |
| Duplicate (1J90802-DUP2) | Source: 19J0367-01 | | | | Prepared & Analyzed: 10/08/09 | | | | | |
| CBOD (5 day) | 1670 | 4 | mg/l | 2140 | | 24.6 | 30 | | | |

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| Analyte | Result | Reporting Limit | Unit | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------------------------------------------|--------------------|-----------------|------|-------------|-------------------------------|------|-------------|-------|-----------|-------|
| Batch 1J90802 - General Prep Micro | | | | | | | | | | |
| Duplicate (1J90802-DUP3) | Source: 19J0376-08 | | | | Prepared & Analyzed: 10/08/09 | | | | | |
| CBOD (5 day) | 189 | 4 | mg/l | 113 | | 50.3 | 30 | QR-04 | | |
| Reference (1J90802-SRM1) | | | | | Prepared & Analyzed: 10/08/09 | | | | | |
| CBOD (5 day) | 427 | 4 | mg/l | 413.160 | | 103 | 84.6-115.4 | | | |
| Batch 1J91202 - Wet Chem Preparation | | | | | | | | | | |
| Blank (1J91202-BLK1) | ND | 1.0 | mg/l | | Prepared & Analyzed: 10/12/09 | | | | | |
| Nitrogen, Ammonia | | | | | | | | | | |
| LCS (1J91202-BS1) | 9.70 | 1.0 | mg/l | 10.0000 | | 97.0 | 53-110 | | | |
| Nitrogen, Ammonia | | | | | | | | | | |
| Duplicate (1J91202-DUP1) | Source: 19J0302-01 | | | | Prepared & Analyzed: 10/12/09 | | | | | |
| Nitrogen, Ammonia | 0.200 | 1.0 | mg/l | 0.200 | | 0.00 | 10 | | | |
| Matrix Spike (1J91202-MS1) | 9.57 | 1.0 | mg/l | 10.0000 | ND | 95.7 | 73-116 | | | |
| Nitrogen, Ammonia | | | | | | | | | | |
| Batch 1J91224 - Wet Chem Preparation | | | | | | | | | | |
| Blank (1J91224-BLK1) | ND | 0.007 | mg/l | | Prepared & Analyzed: 10/12/09 | | | | | |
| Cyanide, real | | | | | | | | | | |
| LCS (1J91224-BS1) | 0.021 | 0.007 | mg/l | 0.020000 | | 104 | 74-121 | | | |
| Cyanide, total | | | | | | | | | | |

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| Analytic | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %USC Limits | RPD | RPD Limit | Notes |
|---------------------------------------------|--------------------|-----------------|-------|-------------|-------------------------------|--------------------|-------------|-------|-----------|-------|
| Batch 1J91224 - Wet Chem Preparation | | | | | | | | | | |
| Matrix Spike (1J91224-MS1) | Source: 19J0332-01 | | | | Prepared & Analyzed: 10/12/09 | | | | | |
| Cyanide, total | 0.027 | 0.007 | mg/l | 0.0200000 | 0.007 | 101 | 60-135 | | | |
| Matrix Spike Dup (1J91224-MSD1) | Source: 19J0332-01 | | | | Prepared & Analyzed: 10/12/09 | | | | | |
| Cyanide, total | 0.027 | 0.007 | mg/l | 0.0200000 | 0.007 | 99.9 | 60-135 | 0.572 | 30 | |
| Batch 1J91230 - Wet Chem Preparation | | | | | | | | | | |
| Blank (1J91230-BLK1) | | | | | Prepared: 10/12/09 | Analyzed: 10/14/09 | | | | |
| Nitrogen, Kjeldahl, total | ND | 0.50 | mg/l | | | | | | | |
| Blank (1J91230-BLK2) | | | | | Prepared: 10/12/09 | Analyzed: 10/14/09 | | | | |
| Nitrogen, Kjeldahl, total | ND | 0.50 | mg/l | | | | | | | |
| LCS (1J91230-BS1) | | | | | Prepared: 10/12/09 | Analyzed: 10/14/09 | | | | |
| Nitrogen, Kjeldahl, total | 21.2 | 0.50 | mg/l | 20.0000 | 106 | 20-120 | | | | |
| LCS (1J91230-BS2) | | | | | Prepared: 10/12/09 | Analyzed: 10/14/09 | | | | |
| Nitrogen, Kjeldahl, total | 10.9 | 0.50 | mg/l | 20.0000 | 99.3 | 88-120 | | | | |
| Matrix Spike (1J91230-MS1) | Source: 19J0388-01 | | | | Prepared: 10/12/09 | Analyzed: 10/14/09 | | | | |
| Nitrogen, Kjeldahl, total | 58.8 | 0.50 | mg/l | 20.0000 | 35.0 | 119 | 80-120 | | | |
| Matrix Spike (1J91230-MS2) | Source: 19J0461-02 | | | | Prepared: 10/12/09 | Analyzed: 10/14/09 | | | | |
| Nitrogen, Kjeldahl, total | 72.6 | 0.50 | mg/l | 20.0000 | 52.1 | 103 | 80-120 | | | |
| Matrix Spike Dup (1J91230-MSD1) | Source: 19J0388-01 | | | | Prepared: 10/12/09 | Analyzed: 10/14/09 | | | | |
| Nitrogen, Kjeldahl, total | 50.2 | 0.50 | mg/l | 20.0000 | 35.0 | 106 | 80-120 | 4.52 | 20 | |

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Keystone Laboratories, Inc. - Newton

| Analytic | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %USC Limits | RPD | RPD Limit | Notes |
|---------------------------------------------|--------------------|-----------------|-------|-------------|-------------------------------|--------------------|-------------|------|-----------|-------|
| Batch 1J91230 - Wet Chem Preparation | | | | | | | | | | |
| Matrix Spike Dup (1J91230-MSD2) | Source: 19J0461-02 | | | | Prepared: 10/12/09 | Analyzed: 10/14/09 | | | | |
| Nitrogen, Kjeldahl, total | 73.6 | 0.50 | mg/l | 20.0000 | 52.1 | 108 | 80-120 | 1.45 | 20 | |
| Batch 1J91250 - Wet Chem Preparation | | | | | | | | | | |
| Blank (1J91250-BLK1) | | | | | Prepared & Analyzed: 10/13/09 | | | | | |
| Oil and Grease | ND | 4 | mg/l | | | | | | | |
| Oil/Grease, animal/vegetable | ND | 4 | mg/l | | | | | | | |
| Oil/Grease, petroleum | ND | 4 | mg/l | | | | | | | |
| LCS (1J91250-BST) | | | | | Prepared & Analyzed: 10/13/09 | | | | | |
| Oil and Grease | 41 | 4 | mg/l | 40.0000 | 102 | 78-114 | | | | |
| Oil/Grease, animal/vegetable | 20 | 4 | mg/l | 20.0000 | 99.0 | 64-132 | | | | |
| Oil/Grease, petroleum | 21 | 4 | mg/l | 20.0000 | 103 | 64-132 | | | | |
| Matrix Spike (1J91250-MS1) | Source: 19J0388-01 | | | | Prepared & Analyzed: 10/13/09 | | | | | |
| Oil and Grease | 43 | 4 | mg/l | 40.1204 | 5 | 96.2 | 78-114 | | | |
| Oil/Grease, animal/vegetable | 25 | 4 | mg/l | 20.0602 | 3 | 110 | 64-132 | | | |
| Oil/Grease, petroleum | 18 | 4 | mg/l | 20.0602 | 2 | 42.5 | 64-132 | | | |
| Matrix Spike Dup (1J91250-MSD1) | Source: 19J0388-01 | | | | Prepared & Analyzed: 10/13/09 | | | | | |
| Oil and Grease | 48 | 4 | mg/l | 40.1210 | 3 | 107 | 78-114 | 10.1 | 18 | |
| Oil/Grease, animal/vegetable | 28 | 4 | mg/l | 20.1005 | 3 | 122 | 64-132 | 9.36 | 34 | |
| Oil/Grease, petroleum | 20 | 4 | mg/l | 20.1005 | 2 | 92.5 | 64-132 | 10.6 | 34 | |
| Batch 1J91301 - Wet Chem Preparation | | | | | | | | | | |
| Blank (1J91301-BLK1) | | | | | Prepared & Analyzed: 10/13/09 | | | | | |
| Solids, total suspended | ND | 1 | mg/l | | | | | | | |

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| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------------------------------------------|--------|-----------------|-------|-------------|-----------------------------------------------------------|--------|-------------|------|-----------|-------|
| Batch 1J91301 - Wet Chem Preparation | | | | | | | | | | |
| LCS (1J91301-BS1) | | | | | Prepared & Analyzed: 10/13/09 | | | | | |
| Solids, total suspended | 14.1 | 1 | mg/l | 15.0000 | 94.0 | 75-116 | | | | |
| Duplicate (1J91301-DUP1) | | | | | | | | | | |
| Solids, total suspended | 51.0 | 5 | mg/l | 53.0 | | | 3.25 | 30 | | |
| Batch 1J91436 - Wet Chem Preparation | | | | | | | | | | |
| Blank (1J91436-BLK1) | | | | | Prepared: 10/14/09 Analyzed: 10/13/09 | | | | | |
| Chemical Oxygen Demand | ND | 10 | mg/l | | | | | | | |
| LCS (1J91436-BS1) | | | | | Prepared: 10/14/09 Analyzed: 10/15/09 | | | | | |
| Chemical Oxygen Demand | 73.1 | 10 | mg/l | 75.0000 | 100 | 74-110 | | | | |
| Matrix Spike (1J91436-MS1) | | | | | Source: 1J9J0275-03 Prepared: 10/14/09 Analyzed: 10/15/09 | | | | | |
| Chemical Oxygen Demand | 28.1 | 10 | mg/l | 42.8571 | ND | 65.3 | 60-140 | | | |
| Matrix Spike Dsp (1J91436-MSD1) | | | | | Source: 1J9J0275-03 Prepared: 10/14/09 Analyzed: 10/15/09 | | | | | |
| Chemical Oxygen Demand | 34.6 | 10 | mg/l | 42.8571 | ND | 104 | 60-140 | 45.3 | 26 | QM-14 |

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| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|----------------------------------|----------|-----------------|-------|-------------|-------------------------------|------|-------------|-----|-----------|-------|
| Batch 1J9J411 - 1J90909 | | | | | | | | | | |
| Calibration Blank (1J9J411-CCB1) | | | | | Prepared & Analyzed: 10/14/09 | | | | | |
| Molybdenum, total | 0.000500 | | mg/l | | 0.00000 | | | | | |
| Calibration Blank (1J9J411-CCB2) | | | | | Prepared & Analyzed: 10/14/09 | | | | | |
| Molybdenum, total | 0.00100 | | mg/l | | 0.00000 | | | | | |
| Calibration Blank (1J9J411-CCB3) | | | | | Prepared & Analyzed: 10/14/09 | | | | | |
| Molybdenum, total | 0.00150 | | mg/l | | 0.00000 | | | | | |
| Calibration Blank (1J9J411-CCB4) | | | | | Prepared & Analyzed: 10/14/09 | | | | | |
| Molybdenum, total | 0.000800 | | mg/l | | 0.00000 | | | | | |
| Calibration Blank (1J9J411-CCB5) | | | | | Prepared & Analyzed: 10/14/09 | | | | | |
| Molybdenum, total | 0.00150 | | mg/l | | 0.00000 | | | | | |
| Calibration Blank (1J9J411-CCB6) | | | | | Prepared & Analyzed: 10/14/09 | | | | | |
| Molybdenum, total | 0.000200 | | mg/l | | 0.00000 | | | | | |
| Calibration Blank (1J9J411-CCB7) | | | | | Prepared & Analyzed: 10/14/09 | | | | | |
| Molybdenum, total | 0.000300 | | mg/l | | 0.00000 | | | | | |
| Calibration Check (1J9J411-CCV1) | | | | | Prepared & Analyzed: 10/14/09 | | | | | |
| Molybdenum, total | 0.297 | | mg/l | | 1.00000 | 99.7 | 90-110 | | | |
| Calibration Check (1J9J411-CCV2) | | | | | Prepared & Analyzed: 10/14/09 | | | | | |
| Molybdenum, total | 0.990 | | mg/l | | 1.00000 | 99.0 | 90-110 | | | |
| Calibration Check (1J9J411-CCV3) | | | | | Prepared & Analyzed: 10/14/09 | | | | | |
| Molybdenum, total | 0.991 | | mg/l | | 1.00000 | 99.1 | 90-110 | | | |

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Determination of Total Metals - Quality Control
Keystone Laboratories, Inc. - Newton

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | MRRL Limits | RPD | RPD Limit | Notes |
|--------------------------------------------|----------|-----------------|-------|-------------|---------------------------------------|--------|-------------|-----|-----------|-------|
| Batch 19J1411 - 1J90909 | | | | | | | | | | |
| Calibration Check (19J1411-CCV4) | | | | | Prepared & Analyzed: 10/14/09 | | | | | |
| Molybdenum, total | 0.983 | | mg/l | 1.00000 | 98.8 | 90-110 | | | | |
| Calibration Check (19J1411-CCV5) | | | | | Prepared & Analyzed: 10/14/09 | | | | | |
| Molybdenum, total | 1.01 | | mg/l | 1.00000 | 101 | 90-110 | | | | |
| Calibration Check (19J1411-CCV6) | | | | | Prepared & Analyzed: 10/14/09 | | | | | |
| Molybdenum, total | 1.00 | | mg/l | 1.00000 | 100 | 90-110 | | | | |
| Calibration Check (19J1411-CCV7) | | | | | Prepared & Analyzed: 10/14/09 | | | | | |
| Molybdenum, total | 1.01 | | mg/l | 1.00000 | 101 | 90-110 | | | | |
| High Cal Check (19J1411-HCV2) | | | | | Prepared & Analyzed: 10/14/09 | | | | | |
| Molybdenum, total | 19.4 | | mg/l | 20.00000 | 97.2 | 90-110 | | | | |
| Initial Cal Blank (19J1411-ICB1) | | | | | Prepared & Analyzed: 10/14/09 | | | | | |
| Molybdenum, total | 0.000600 | | mg/l | 0.00000 | | | | | | |
| Initial Cal Check (19J1411-ICV1) | | | | | Prepared & Analyzed: 10/14/09 | | | | | |
| Molybdenum, total | 1.00 | | mg/l | 1.00000 | 100 | 90-110 | | | | |
| Secondary Cal Check (19J1411-SCV1) | | | | | Prepared & Analyzed: 10/14/09 | | | | | |
| Molybdenum, total | 0.510 | | mg/l | 0.500000 | 102 | 90-110 | | | | |
| Batch 1J90833 - EPA 3010A Total ICP | | | | | | | | | | |
| Blank (1J90833-BLK1) | | | | | Prepared: 10/08/09 Analyzed: 10/14/09 | | | | | |
| Molybdenum, total | ND | 0.010 | mg/l | | | | | | | |

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Determination of Total Metals - Quality Control
Keystone Laboratories, Inc. - Newton

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | MRRL Limits | RPD | RPD Limit | Notes |
|--------------------------------------------|--------|-----------------|-------|-------------|---------------------------------------|---------------------------------------|-------------|-------|-----------|-------|
| Batch 1J90833 - EPA 3010A Total ICP | | | | | | | | | | |
| LCS (1J90833-B51) | | | | | Prepared: 10/08/09 Analyzed: 10/14/09 | | | | | |
| Molybdenum, total | 0.198 | | mg/l | 0.200000 | 104 | 84-112 | | | | |
| Matrix Spike (1J90833-MS1) | | | | | Sources: 19J0275-09 | Prepared: 10/08/09 Analyzed: 10/14/09 | | | | |
| Molybdenum, total | 0.204 | | mg/l | 0.200000 | ND | 104 | 73-116 | | | |
| Matrix Spike Dup (1J90833-MSD1) | | | | | Sources: 19J0275-09 | Prepared: 10/08/09 Analyzed: 10/14/09 | | | | |
| Molybdenum, total | 0.203 | | mg/l | 0.200000 | ND | 104 | 73-116 | 0.337 | 13 | |
| Post Spike (1J90833-PS1) | | | | | Sources: 19J0275-09 | Prepared: 10/08/09 Analyzed: 10/14/09 | | | | |
| Molybdenum, total | 0.202 | | mg/l | 0.196075 | 0.0000930 | 103 | 88-116 | | | |

ND = Non Detect; REC= Recovery; RPD= Relative Percent Difference

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Certified Analyses included in this Report

| Method/Matrix | Analyte | Certifications |
|----------------------|--------------------------------------|---------------------|
| 200.7 In Drink Water | | |
| | Calcium, total | IA-NT |
| | Sodium, total | IA-NT |
| 200.8 In Water | | |
| | Thallium, total | IA-NT |
| 4500CN-E In Water | | |
| | Cyanide, total | IA-NT, KS-NT, NELAC |
| EPA 1664 In Water | | |
| | Oil and Grease | IA-NT, KS-NT, NELAC |
| | Oil/Grease, animal/vegetable | IA-NT, KS-NT, NELAC |
| | Oil/Grease, petroleum | IA-NT, KS-NT, NELAC |
| EPA 200.7 In Water | | |
| | Aluminum, total | IA-NT |
| | Cadmium, total | IA-NT |
| | Chromium, total | IA-NT |
| | Copper, total | IA-NT |
| | Iron, total | IA-NT |
| | Lead, total | IA-NT |
| | Molybdenum, total | IA-NT |
| | Nickel, total | IA-NT |
| | Silver, total | IA-NT |
| | Zinc, total | IA-NT |
| | Hardness, Total as CaCO ₃ | KS-NT, NELAC |
| EPA 200.8 In Water | | |
| | Antimony, total | IA-NT |
| | Arsenic, total | IA-NT |
| | Barium, total | IA-NT |
| | Cadmium, total | IA-NT |
| | Chromium, total | IA-NT |
| | Copper, total | IA-NT |
| | Lead, total | IA-NT |
| | Nickel, total | IA-NT |
| | Selenium, total | IA-NT |
| | Silver, total | IA-NT |

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| | | |
|-----------------------|---------------------------|---------------------|
| EPA 351.2 In Water | Zinc, total | IA-NT |
| EPA 410.4 In Water | Nitrogen, Kjeldahl, total | IA-NT |
| EPA 6010B In Soil | Chemical Oxygen Demand | IA-NT, KS-NT, NELAC |
| | Arsenic, total | IA-NT, KS-NT |
| | Barium, total | IA-NT, KS-NT, NELAC |
| | Cadmium, total | IA-NT, KS-NT, NELAC |
| | Chromium, total | IA-NT, KS-NT, NELAC |
| | Copper, total | IA-NT, KS-NT, NELAC |
| | Lead, total | IA-NT, KS-NT, NELAC |
| | Molybdenum, total | IA-NT, KS-NT, NELAC |
| | Nickel, total | IA-NT, KS-NT, NELAC |
| | Selenium, total | IA-NT, KS-NT |
| | Silver, total | IA-NT, KS-NT, NELAC |
| | Zinc, total | IA-NT, KS-NT, NELAC |
| EPA 6010B In Water | Iron, dissolved | IA-NT, KS-NT, NELAC |
| EPA 6020A In Water | | |
| | Antimony, total | IA-NT |
| | Arsenic, total | IA-NT |
| | Barium, total | IA-NT |
| | Cadmium, total | IA-NT |
| | Chromium, total | IA-NT |
| | Cobalt, total | IA-NT |
| | Copper, total | IA-NT |
| | Lead, total | IA-NT |
| | Nickel, total | IA-NT |
| | Selenium, total | IA-NT |
| | Thallium, total | IA-NT |
| | Vanadium, total | IA-NT |
| | Zinc, total | IA-NT |
| SM 3120B In Water | | |
| | Lead, total | IA-NT, KS-NT, NELAC |
| SM 4500 H+ B In Water | pH | IA-NT, KS-NT, NELAC |

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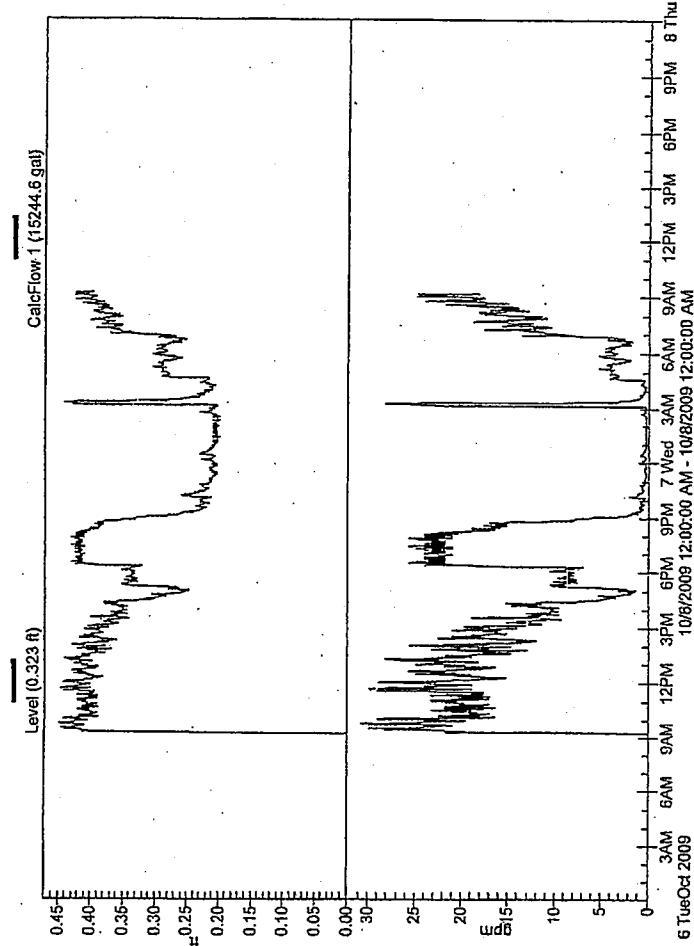
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3060

SAMPLER ID# 1182518539 09:13 7-OCT-09
Hardware: AI Software: 2.31
***** PROGRAM SETTINGS *****

SITE DESCRIPTION:
"SAUR-DANFO"

UNITS SELECTED:
FLOW RATE: gpm
FLOW VOLUME: gal

BUBBLER MODULE:
FLOW-INSERT
8"
V-NOTCH

1, 9.80 lit BTLS

25 ft SUCTION LINE

PACING:
TIME, EVERY
0 HOURS, 12 MINUTES

COMPOSITE:
120 SAMPLES

70 ml SAMPLES

NO DELAY TO START

SAMPLER ID# 1182518539 09:13 7-OCT-09
Hardware: AI Software: 2.31
***** SAMPLING RESULTS *****

SITE: SAUR-DANFO
Program Started at 09:17 TU 6-OCT-09
Nominal Sample volume = 70 ml

| SAMPLE | BOTTLE | TIME | SOURCE | ERROR | COUNT TO LIQUID |
|--------|--------|-------|--------|---------|-----------------|
| 1 | 1 | 09:17 | PGM | ENABLED | * |
| 2 | 1 | 09:29 | S | NM | 810 |
| 3 | 1 | 09:41 | T | | 812 |
| 4 | 1 | 09:53 | T | | 812 |

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 5 1 10:05 T 812
 6 1 10:17 T 812
 7 1 10:29 T 1004
 8 1 10:41 T 812
 9 1 10:53 T 814
 10 1 11:05 T 823
 11 1 11:17 T 824
 12 1 11:29 T 819
 13 1 11:41 T 818
 14 1 11:53 T 820
 15 1 12:05 T 819
 16 1 12:17 T 820
 17 1 12:29 T 822
 18 1 12:41 T 815
 19 1 12:53 T 820
 20 1 13:05 T 818
 21 1 13:17 T 809
 22 1 13:29 T 812
 23 1 13:41 T 812
 24 1 13:53 T 814
 25 1 14:05 T 814
 26 1 14:17 T 811
 27 1 14:29 T 812
 28 1 14:41 T 812
 29 1 14:53 T 812
 30 1 15:05 T 812
 31 1 15:17 T 812
 32 1 15:29 T 810
 33 1 15:41 T 806
 34 1 15:53 T 808
 35 1 16:05 T 806
 36 1 16:17 T 808
 37 1 16:29 T NM *
 38 1 16:41 T NM *
 39 1 16:53 T NL *
 40 1 17:05 T NM *
 41 1 17:17 T 810
 42 1 17:29 T 809
 43 1 17:41 T 826
 44 1 17:53 T 820
 45 1 18:05 T 798
 46 1 18:17 T 833
 47 1 18:29 T 796
 48 1 18:41 T 796
 49 1 18:53 T 796
 50 1 19:05 T 796
 51 1 19:17 T 794
 52 1 19:29 T 794
 53 1 19:41 T 795
 54 1 19:53 T 794
 55 1 20:05 T 794
 56 1 20:17 T 794
 57 1 20:29 T 794
 58 1 20:41 T 794
 59 1 20:53 T 818
 60 1 21:05 T NM *
 61 1 21:17 T NM *
 62 1 21:29 T NL *
 63 1 21:41 T NL *
 64 1 21:53 T NL *
 65 1 22:05 T NL *
 66 1 22:07 T NL *
 67 1 22:29 T NL *

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 68 1 22:41 T NL *
 69 1 22:53 T NL *
 70 1 23:05 T NL *
 71 1 23:17 T NL *
 72 1 23:29 T NL *
 73 1 23:41 T NL *
 74 1 23:53 T NL *
 WE 07-OCT-09
 75 1 00:05 T NL *
 76 1 00:17 T NL *
 77 1 00:29 T NL *
 78 1 00:41 T NL *
 79 1 00:53 T NL *
 80 1 01:05 T NL *
 81 1 01:17 T NL *
 82 1 01:29 T NL *
 83 1 01:41 T NL *
 84 1 01:53 T NL *
 85 1 02:05 T NL *
 86 1 02:17 T NL *
 87 1 02:29 T NL *
 88 1 02:41 T NL *
 89 1 02:53 T NL *
 90 1 03:05 T NL *
 91 1 03:17 T P 782
 92 1 03:29 T P
 03:30 POWER FAILED!
 03:30 POWER RESTORED
 93 1 03:41 T P *
 03:41 POWER FAILED!
 03:41 POWER RESTORED
 94 1 03:53 T P *
 03:53 POWER FAILED!
 03:53 POWER RESTORED
 95 1 04:05 T P *
 04:05 POWER FAILED!
 04:05 POWER RESTORED
 96 1 04:17 T P *
 04:17 POWER FAILED!
 04:17 POWER RESTORED
 04:17 PGM STOPPED 07-OCT

SOURCE S ==> START
 SOURCE T ==> TIME
 ERROR NL ==> NO LIQUID DETECTED!
 ERROR NM ==> NO MORE LIQUID!
 ERROR P ==> POWER FAILED!

SAMPLER ID# 1182518539 09:13 7-OCT-09
 Hardware: A1 software: 2.31
 BUBBLER MODULE: 1160556497
 Hardware: A0 software: 1.07
 ***** COMBINED RESULTS *****
 SITE: SAUR-DANFO
 Program Started at 09:17 TU 6-OCT-09
 Nominal Sample Volume = 70 ml
 SAMPLE BOTTLE TIME FLOW TOTAL
 LEVEL RATE FLOW gal

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| | | | | | |
|----|---|-------|-------|-------|------------|
| 1 | 1 | 09:17 | 0.328 | 7.590 | 0000000000 |
| 2 | 1 | 09:29 | 0.420 | 23.24 | 0000000240 |
| 3 | 1 | 09:41 | 0.423 | 24.01 | 0000000550 |
| 4 | 1 | 09:53 | 0.427 | 24.80 | 0000000850 |
| 5 | 1 | 10:05 | 0.440 | 28.11 | 0000001140 |
| 6 | 1 | 10:17 | 0.394 | 17.64 | 0000001380 |
| 7 | 1 | 10:29 | 0.413 | 21.75 | 0000001610 |
| 8 | 1 | 10:41 | 0.394 | 17.64 | 0000001850 |
| 9 | 1 | 10:53 | 0.404 | 29.62 | 0000002070 |
| 10 | 1 | 11:05 | 0.410 | 21.02 | 0000002330 |
| 11 | 1 | 11:17 | 0.390 | 17.01 | 0000002560 |
| 12 | 1 | 11:29 | 0.400 | 18.95 | 0000002790 |
| 13 | 1 | 11:41 | 0.410 | 21.02 | 0000003050 |
| 14 | 1 | 11:53 | 0.407 | 20.32 | 0000003320 |
| 15 | 1 | 12:05 | 0.417 | 22.48 | 0000003600 |
| 16 | 1 | 12:17 | 0.394 | 17.64 | 0000003860 |
| 17 | 1 | 12:29 | 0.413 | 21.75 | 0000004080 |
| 18 | 1 | 12:41 | 0.427 | 24.80 | 0000004350 |
| 19 | 1 | 12:53 | 0.387 | 16.39 | 0000004580 |
| 20 | 1 | 13:05 | 0.423 | 24.01 | 0000004840 |
| 21 | 1 | 13:17 | 0.417 | 22.48 | 0000005120 |
| 22 | 1 | 13:29 | 0.413 | 21.75 | 0000005380 |
| 23 | 1 | 13:41 | 0.387 | 16.39 | 0000005590 |
| 24 | 1 | 13:53 | 0.407 | 20.32 | 0000005810 |
| 25 | 1 | 14:05 | 0.410 | 21.02 | 0000006040 |
| 26 | 1 | 14:17 | 0.364 | 12.46 | 0000006240 |
| 27 | 1 | 14:29 | 0.404 | 19.62 | 0000006430 |
| 28 | 1 | 14:41 | 0.384 | 15.79 | 0000006650 |
| 29 | 1 | 14:53 | 0.387 | 16.39 | 0000006840 |
| 30 | 1 | 15:05 | 0.394 | 17.64 | 0000007050 |
| 31 | 1 | 15:17 | 0.374 | 14.07 | 0000007220 |
| 32 | 1 | 15:29 | 0.351 | 10.52 | 0000007370 |
| 33 | 1 | 15:41 | 0.367 | 12.99 | 0000007530 |
| 34 | 1 | 15:53 | 0.354 | 10.99 | 0000007670 |
| 35 | 1 | 16:05 | 0.358 | 11.46 | 0000007790 |
| 36 | 1 | 16:17 | 0.371 | 13.52 | 0000007930 |
| 37 | 1 | 16:29 | 0.312 | 5.850 | 0000008070 |
| 38 | 1 | 16:41 | 0.292 | 4.107 | 0000008130 |
| 39 | 1 | 16:53 | 0.256 | 1.609 | 0000008170 |
| 40 | 1 | 17:05 | 0.269 | 2.520 | 0000008200 |
| 41 | 1 | 17:17 | 0.344 | 9.627 | 0000008260 |
| 42 | 1 | 17:29 | 0.331 | 7.977 | 0000008370 |
| 43 | 1 | 17:41 | 0.338 | 8.778 | 0000008470 |
| 44 | 1 | 17:53 | 0.335 | 8.368 | 0000008570 |
| 45 | 1 | 18:05 | 0.351 | 10.52 | 0000008680 |
| 46 | 1 | 18:17 | 0.338 | 8.778 | 0000008780 |
| 47 | 1 | 18:29 | 0.417 | 22.48 | 0000008970 |
| 48 | 1 | 18:41 | 0.423 | 24.01 | 0000009250 |
| 49 | 1 | 18:53 | 0.417 | 22.48 | 0000009520 |
| 50 | 1 | 19:05 | 0.413 | 21.75 | 0000009790 |
| 51 | 1 | 19:17 | 0.417 | 22.48 | 0000010070 |
| 52 | 1 | 19:29 | 0.423 | 24.01 | 0000010340 |
| 53 | 1 | 19:41 | 0.417 | 22.48 | 0000010610 |
| 54 | 1 | 19:53 | 0.413 | 21.75 | 0000010890 |
| 55 | 1 | 20:05 | 0.410 | 21.02 | 0000011160 |
| 56 | 1 | 20:17 | 0.400 | 18.95 | 0000011430 |
| 57 | 1 | 20:29 | 0.384 | 15.79 | 0000011640 |
| 58 | 1 | 20:41 | 0.387 | 16.39 | 0000011830 |
| 59 | 1 | 20:53 | 0.335 | 8.368 | 0000012000 |
| 60 | 1 | 21:05 | 0.282 | 3.374 | 0000012080 |
| 61 | 1 | 21:17 | 0.246 | 1.361 | 0000012110 |
| 62 | 1 | 21:29 | 0.223 | 0.585 | 0000012120 |

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| | | | | | |
|----|---|-------|-------|-------|------------|
| 63 | 1 | 21:41 | 0.223 | 0.585 | 0000012130 |
| 64 | 1 | 21:53 | 0.223 | 0.585 | 0000012140 |
| 65 | 1 | 22:05 | 0.213 | 0.360 | 0000012150 |
| 66 | 1 | 22:17 | 0.240 | 1.102 | 0000012160 |
| 67 | 1 | 22:29 | 0.220 | 0.504 | 0000012170 |
| 68 | 1 | 22:41 | 0.226 | 0.676 | 0000012180 |
| 69 | 1 | 22:53 | 0.217 | 0.426 | 0000012180 |
| 70 | 1 | 23:05 | 0.210 | 0.297 | 0000012190 |
| 71 | 1 | 23:17 | 0.207 | 0.242 | 0000012190 |
| 72 | 1 | 23:29 | 0.207 | 0.242 | 0000012190 |
| 73 | 1 | 23:41 | 0.217 | 0.426 | 0000012200 |
| 74 | 1 | 23:53 | 0.203 | 0.192 | 0000012200 |

WE 7-OCT-09

| | | | | | |
|----|---|-------|-------|-------|------------|
| 75 | 1 | 00:05 | 0.223 | 0.585 | 0000012200 |
| 76 | 1 | 00:17 | 0.210 | 0.297 | 0000012210 |

| | | | | | |
|----|---|-------|-------|-------|------------|
| 77 | 1 | 00:29 | 0.230 | 0.771 | 0000012220 |
| 78 | 1 | 00:41 | 0.213 | 0.360 | 0000012220 |
| 79 | 1 | 00:53 | 0.207 | 0.242 | 0000012220 |
| 80 | 1 | 01:05 | 0.203 | 0.192 | 0000012230 |
| 81 | 1 | 01:17 | 0.203 | 0.192 | 0000012230 |
| 82 | 1 | 01:29 | 0.203 | 0.192 | 0000012230 |
| 83 | 1 | 01:41 | 0.210 | 0.297 | 0000012240 |
| 84 | 1 | 01:53 | 0.210 | 0.297 | 0000012240 |
| 85 | 1 | 02:05 | 0.203 | 0.192 | 0000012240 |
| 86 | 1 | 02:17 | 0.203 | 0.192 | 0000012240 |
| 87 | 1 | 02:29 | 0.203 | 0.192 | 0000012250 |
| 88 | 1 | 02:41 | 0.217 | 0.426 | 0000012250 |
| 89 | 1 | 02:53 | 0.210 | 0.297 | 0000012250 |
| 90 | 1 | 03:05 | 0.210 | 0.297 | 0000012260 |
| 91 | 1 | 03:17 | 0.423 | 24.01 | 0000012480 |
| 92 | 1 | 03:29 | 0.253 | 1.650 | 0000012570 |
| 93 | 1 | 03:41 | 0.223 | 0.585 | 0000012580 |
| 94 | 1 | 03:53 | 0.217 | 0.426 | 0000012590 |
| 95 | 1 | 04:05 | 0.210 | 0.297 | 0000012590 |
| 96 | 1 | 04:17 | 0.223 | 0.585 | 0000012600 |

SAMPLER ID# 1182518539 09:14 7-OCT-09

Hardware: A1 Software: 2.31

***** COMBINED RESULTS *****

SITE: SAUR-DANFO

Program Started at 09:17 TU 6-OCT-09

Nominal Sample Volume = 70 ml

FR-TEMP

SAMPLE BOTTLE TIME

C

NO FR-TEMPERATURE

SAMPLER ID# 1182518539 09:14 7-OCT-09

Hardware: A1 Software: 2.31

***** COMBINED RESULTS *****

SITE: SAUR-DANFO

Program Started at 09:17 TU 6-OCT-09

Nominal Sample Volume = 70 ml

SAMPLE BOTTLE TIME

NO RAIN GAUGE

3060

SAMPLER ID# 1182518539 09:14 7-OCT-09
Hardware: A1 Software: 2.31
SDI-12 DATA
***** COMBINED RESULTS *****
SITE: SAUR-DANFO
Program Started at 09:17 TU 6-OCT-09
Nominal Sample Volume = 70 ml

NO SDI-12 SONDE

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 500-21830-1

SDG Number: 500-21830-1

Job Description: 09-233

For:

Fehr-Graham & Associates
221 E. Main Street, Suite 200
Freeport, IL 61032-4201

Attention: Ms. Amy Schlosser

Job Narrative
500-21830-1

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

GC/MS VOA
No analytical or quality issues were noted.



Approved for release.
Donna L. Ingersoll
Project Manager II
10/22/2009 4:00 AM

Donna L. Ingersoll
Project Manager II
donna.ingersoll@testamericaninc.com
10/22/2009

cc: Ms. Donna Ingersoll

These test results meet all the requirements of NELAC for accredited parameters.

The Lab Certification ID# is 100201.

All questions regarding this test report should be directed to the TestAmerica Project Manager whose signature appears on this report. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

TestAmerica Laboratories, Inc.
TestAmerica Chicago 2417 Bond Street, University Park, IL 60484
Tel (708) 534-5200 Fax (708) 534-5211 www.testamericaninc.com



EXECUTIVE SUMMARY - Detections

Client: Fehr-Graham & Associates

Job Number: 500-21830-1
Sdg Number: 500-21830-1

| Lab Sample ID | Client Sample ID | Result / Qualifier | Reporting Limit | Units | Method |
|---------------------------|------------------|--------------------|-----------------|-------|--------|
| 500-21830-1 | 26646 4Q2009 | | | | |
| 1,1,1-Trichloroethane | 0.048 | | 0.0010 | mg/L | 8260B |
| 1,1-Dichloroethane | 0.010 | | 0.0010 | mg/L | 8260B |
| 1,1-Dichloroethene | 0.012 | | 0.0010 | mg/L | 8260B |
| 1,2-Dichloroethene, Total | 0.058 | | 0.0020 | mg/L | 8260B |
| Tetrachloroethene | 0.41 | | 0.0050 | mg/L | 8260B |
| Trichloroethene | 0.021 | | 0.0010 | mg/L | 8260B |

METHOD SUMMARY

Client: Fehr-Graham & Associates

Job Number: 500-21830-1
Sdg Number: 500-21830-1

| Description | Lab Location | Method | Preparation Method |
|-----------------------------------------------------------------------|--------------------|-------------|--------------------|
| Matrix: Water Volatile Organic Compounds (GC/MS) Purge and Trap | TAL CHI TAL CHI | SWR46 8260B | SW846 5030B |

Lab References:

TAL CHI = TestAmerica Chicago

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Fehr-Graham & Associates

Job Number: 500-21830-1
Sdg Number: 500-21830-1

| Method | Analyst | Analyst ID |
|-------------|------------------|------------|
| SW846 8260B | Allkpala, Elaine | EA |

SAMPLE SUMMARY

Client: Fehr-Graham & Associates

Job Number: 500-21830-1
Sdg Number: 500-21830-1

| Lab Sample ID | Client Sample ID | Client Matrix | Date/Time Sampled | Date/Time Received |
|---------------|------------------|---------------|-------------------|--------------------|
| 500-21830-1 | 26646 4Q2009 | Water | 10/15/2009 1400 | 10/16/2009 1025 |

Ms. Amy Schlosser
Fehr-Graham & Associates
221 E. Main Street, Suite 200
Freeport, IL 61032-4201

Job Number: 500-21830-1
Sdg Number: 500-21830-1

Client Sample ID: 26646 4Q2009
Lab Sample ID: 500-21830-1

Date Sampled: 10/15/2009 1400
Date Received: 10/16/2009 1025
Client Media: Water

SAMPLE RESULTS

| Analyte | Result/Qualifier | Unit | MDL | RL | Dilution |
|-----------------------------|------------------|------|---------|--------|-------------------|
| Method: 8260B | | | | | |
| Prep Method: 5030B | | | | | |
| 1,1,1-Trichloroethane | 0.048 | mg/L | 0.00014 | 0.0010 | 1.0 |
| 1,1-Dichloroethane | 0.010 | mg/L | 0.00012 | 0.0010 | 1.0 |
| 1,1-Dichloroethene | 0.012 | mg/L | 0.00023 | 0.0010 | 1.0 |
| 1,2-Dichloroethene, Total | 0.058 | mg/L | 0.00026 | 0.0020 | 1.0 |
| Acetone | <0.0050 | mg/L | 0.00021 | 0.0050 | 1.0 |
| Trichloroethene | 0.021 | mg/L | 0.00016 | 0.0010 | 1.0 |
| Xylenes, Total | <0.0020 | mg/L | 0.00042 | 0.0020 | 1.0 |
| Surrogate | | | | | Acceptance Limits |
| 1,2-Dichloroethane-d4 (Sum) | 113 | % | | | 72 - 135 |
| 4-Bromofluorobenzene (Sur) | 88 | % | | | 77 - 120 |
| Toluene-d8 (Sur) | 97 | % | | | 80 - 120 |
| Dibromofluoromethane | 114 | % | | | 79 - 133 |
| Method: 8260B Run Type: DL | | | | | |
| Prep Method: 5030B | | | | | |
| Tetrachloroethene | 0.41 | mg/L | 0.0010 | 0.0050 | 5.0 |
| Surrogate | | | | | Acceptance Limits |
| 1,2-Dichloroethane-d4 (Sum) | 108 | % | | | 72 - 135 |
| 4-Bromofluorobenzene (Sur) | 88 | % | | | 77 - 120 |
| Toluene-d8 (Sur) | 94 | % | | | 80 - 120 |
| Dibromofluoromethane | 113 | % | | | 79 - 133 |

DATA REPORTING QUALIFIERS

| <u>Lab Section</u> | <u>Qualifier</u> | <u>Description</u> |
|--------------------|------------------|--------------------|
|--------------------|------------------|--------------------|

QUALITY CONTROL RESULTS

TestAmerica Chicago

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10/22/2009

Client: Fehr-Graham & Associates

Quality Control Results

Job Number: 500-21830-1
Sdg Number: 500-21830-1

QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|---------------------------|------------------------------|--------------|---------------|--------|------------|
| GC/MS VOA | | | | | |
| Analysis Batch: 500-73808 | | | | | |
| LCS 500-73808/6 | Lab Control Sample | T | Water | 8260B | |
| LCSD 500-73808/15 | Lab Control Sample Duplicate | T | Water | 8260B | |
| MB 500-73808/5 | Method Blank | T | Water | 8260B | |
| 500-21830-1DL | 26646 4Q2009 | T | Water | 8260B | |
| Analysis Batch: 500-73862 | | | | | |
| LCS 500-73862/9 | Lab Control Sample | T | Water | 8260B | |
| MB 500-73862/8 | Method Blank | T | Water | 8260B | |
| 500-21830-1 | 26646 4Q2009 | T | Water | 8260B | |

Report Basis

T = Total

Quality Control Results

Client: Fehr-Graham & Associates

Quality Control Results

Job Number: 500-21830-1
Sdg Number: 500-21830-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

| Lab Sample ID | Client Sample ID | DCA %Rec | BFB %Rec | TOL %Rec | DBFM %Rec |
|-------------------|------------------|----------|----------|----------|-----------|
| 500-21830-1 DL | 26646 4Q2009 DL | 108 | 88 | 94 | 113 |
| 500-21830-1 | 26646 4Q2009 | 113 | 88 | 97 | 114 |
| MB 500-73808/5 | | 104 | 91 | 95 | 107 |
| MB 500-73862/8 | | 104 | 89 | 96 | 107 |
| LCS 500-73808/6 | | 105 | 95 | 99 | 104 |
| LCS 500-73862/9 | | 104 | 97 | 98 | 104 |
| LCSD 500-73808/15 | | 105 | 95 | 100 | 110 |

TestAmerica Chicago

Surrogate

DCA = 1,2-Dichloroethane-d4 (Surf)

Acceptance Limits

72-135

BFB = 4-Bromofluorobenzene (Surf)

77-120

TOL = Toluene-d8 (Surf)

80-120

DBFM = Dibromofluoromethane

79-133

Quality Control Results

Client: Fehr-Graham & Associates

Job Number: 500-21830-1
Sdg Number: 500-21830-1

Method Blank - Batch: 500-73808

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 500-73808/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/19/2009 1253
Date Prepared: 10/19/2009 1253

Analysis Batch: 500-73808
Prep Batch: N/A
Units: mg/L

Instrument ID: Agilent 6890A GC - 5973 M
Lab File ID: 22M1019.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

| Analyte | Result | Qual | MDL | RL |
|---------------------------|---------|------|---------|--------|
| 1,1,1-Trichloroethane | <0.0010 | | 0.00014 | 0.0010 |
| 1,1-Dichloroethane | <0.0010 | | 0.00012 | 0.0010 |
| 1,1-Dichloroethene | <0.0010 | | 0.00023 | 0.0010 |
| 1,2-Dichloroethene, Total | <0.0020 | | 0.00026 | 0.0020 |
| Acetone | <0.0050 | | 0.0021 | 0.0050 |
| Tetrachloroethene | <0.0010 | | 0.00020 | 0.0010 |
| Trichloroethene | <0.0010 | | 0.00016 | 0.0010 |
| Xylenes, Total | <0.0020 | | 0.00042 | 0.0020 |

| Surrogate | % Rec | Acceptance Limits |
|-----------------------------|-------|-------------------|
| 1,2-Dichloroethane-d4 (Sur) | 104 | 72 - 135 |
| 4-Bromofluorobenzene (Sur) | 91 | 77 - 120 |
| Toluene-d8 (Sur) | 95 | 80 - 120 |
| Dibromofluoromethane | 107 | 79 - 133 |

Quality Control Results

Client: Fehr-Graham & Associates

Job Number: 500-21830-1
Sdg Number: 500-21830-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 500-73808

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 500-73808/6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/19/2009 1314
Date Prepared: 10/19/2009 1314

Analysis Batch: 500-73808
Prep Batch: N/A
Units: mg/L

Instrument ID: Agilent 6890A GC - 5973 M
Lab File ID: 22T1019.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 500-73808/15
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/19/2009 2208
Date Prepared: 10/19/2009 2208

Analysis Batch: 500-73808
Prep Batch: N/A
Units: mg/L

Instrument ID: Agilent 6890A GC - 5973
Lab File ID: 22T1019.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

| Analyte | % Rec. | | LCS | LCSD | Limit | RPD | RPD Limit | LCS Qual | LCSD Qual |
|---------------------------|--------|-----|----------|------|-------|-----|-----------|----------|-----------|
| 1,1,1-Trichloroethane | 107 | 109 | 64 - 122 | 2 | 20 | | | | |
| 1,1-Dichloroethane | 104 | 105 | 65 - 120 | 1 | 20 | | | | |
| 1,1-Dichloroethene | 102 | 103 | 55 - 129 | 1 | 20 | | | | |
| 1,2-Dichloroethene, Total | 105 | 106 | 68 - 120 | 1 | 20 | | | | |
| Acetone | 104 | 101 | 29 - 152 | 2 | 20 | | | | |
| Tetrachloroethene | 99 | 94 | 70 - 120 | 5 | 20 | | | | |
| Trichloroethene | 104 | 101 | 71 - 120 | 3 | 20 | | | | |
| Xylenes, Total | 104 | 99 | 74 - 120 | 4 | 20 | | | | |

| Surrogate | LCS % Rec | LCSD % Rec | Acceptance Limits |
|-----------------------------|-----------|------------|-------------------|
| 1,2-Dichloroethane-d4 (Sur) | 105 | 105 | 72 - 135 |
| 4-Bromofluorobenzene (Sur) | 95 | 35 | 77 - 120 |
| Toluene-d8 (Sur) | 99 | 100 | 80 - 120 |
| Dibromofluoromethane | 104 | 110 | 79 - 133 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

TestAmerica Chicago

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Calculations are performed before rounding to avoid round-off errors in calculated results.

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Quality Control Results

Client: Fehr-Graham & Associates

Method Blank - Batch: 500-73862

Lab Sample ID: MB 500-73862/8
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/20/2009 1224
Date Prepared: 10/20/2009 1224

Analysis Batch: 500-73862
Prep Batch: N/A
Units: mg/L

Method: 8260B
Preparation: 5030B

Instrument ID: Agilent 6890A GC - 5973 M
Lab File ID: 22M1020.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

| Analyte | Result | Qual | MDL | RL |
|---------------------------|---------|------|---------|--------|
| 1,1,1-Trichloroethane | <0.0010 | | 0.00014 | 0.0010 |
| 1,1-Dichloroethane | <0.0010 | | 0.00012 | 0.0010 |
| 1,1-Dichloroethene | <0.0010 | | 0.00023 | 0.0010 |
| 1,2-Dichloroethene, Total | <0.0020 | | 0.00026 | 0.0020 |
| Acetone | <0.0050 | | 0.0021 | 0.0050 |
| Tetrachloroethene | <0.0010 | | 0.00020 | 0.0010 |
| Trichloroethene | <0.0010 | | 0.00016 | 0.0010 |
| Xylenes, Total | <0.0020 | | 0.00042 | 0.0020 |

| Surrogate | % Rec | Acceptance Limits |
|-----------------------------|-------|-------------------|
| 1,2-Dichloroethane-d4 (Sur) | 104 | 72 - 135 |
| 4-Bromofluorobenzene (Sur) | 89 | 77 - 120 |
| Toluene-d8 (Sur) | 96 | 80 - 120 |
| Dibromofluoromethane | 107 | 79 - 133 |

Quality Control Results

Client: Fehr-Graham & Associates

Lab Control Sample - Batch: 500-73862

Lab Sample ID: LCS 500-73862/9
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/20/2009 1141
Date Prepared: 10/20/2009 1141

Analysis Batch: 500-73862
Prep Batch: N/A
Units: mg/L

Method: 8260B
Preparation: 5030B

Instrument ID: Agilent 6890A GC - 5973 M
Lab File ID: 22S1020.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---------------------------|--------------|--------|--------|----------|------|
| 1,1,1-Trichloroethane | 0.0250 | 0.0246 | 98 | 64 - 122 | |
| 1,1-Dichloroethane | 0.0250 | 0.0240 | 96 | 65 - 120 | |
| 1,1-Dichloroethene | 0.0250 | 0.0230 | 92 | 55 - 129 | |
| 1,2-Dichloroethene, Total | 0.0500 | 0.0484 | 97 | 68 - 120 | |
| Acetone | 0.0250 | 0.0205 | 82 | 29 - 152 | |
| Tetrachloroethene | 0.0250 | 0.0229 | 92 | 70 - 120 | |
| Trichloroethene | 0.0250 | 0.0237 | 95 | 71 - 120 | |
| Xylenes, Total | 0.0750 | 0.0721 | 96 | 74 - 120 | |

| Surrogate | % Rec | Acceptance Limits |
|-----------------------------|-------|-------------------|
| 1,2-Dichloroethane-d4 (Sur) | 104 | 72 - 135 |
| 4-Bromofluorobenzene (Sur) | 97 | 77 - 120 |
| Toluene-d8 (Sur) | 99 | 80 - 120 |
| Dibromofluoromethane | 104 | 79 - 133 |

Calculations are performed before rounding to avoid round-off errors in calculated results

TestAmerica Chicago

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10/22/2009

Calculations are performed before rounding to avoid round-off errors in calculated results.

TestAmerica Chicago

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10/22/2009

500-21830

Fisher-Graham & Associates

www.villanawebassociates.com 00 333

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Sample ID: 26059-202103

Sample Characteristics: Gr

Sample to be collected on:

Number of Samples: One (1)

ECA Contact for questions:

卷之三

Analyse für VÖC's Method 8260 und sonst für die Fällen

1. Acetone
 2. 1,1-Dichloroethane
 3. 1,-Dibromoethene
 4. 1,2-Dibromoethane
 5. 1,1,1-Trichloroethane
 6. Trichloroethene
 7. Tetrachloroethene

[REDACTED] 2008W-233 AGW Remediation System Status

6

FEHR-GRAHAM & ASSOCIATES
Engineering and Science Consultants

Chain of Custody Record

500-21830

10/22/2009

| Project Number : 09-233 | | Deliver Report To : (check one) | | | | LAB USE ONLY | | Page <u>1</u> of <u>1</u> | | |
|-----------------------------------------------------------------------------|-----------------------|-------------------------------------|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------|-------------------------------------------------------------------|
| Turnaround Time (circle one) : <input checked="" type="checkbox"/> Standard | | <input checked="" type="checkbox"/> | | 221 East Main Street Suite 200 Freeport, IL 61032 815-235-7043 phone 815-235-4032 fax pschlosser@fetr-graham.com e-mail | | Login ID # _____ Login By _____ Lab Prof/ID # _____ Sample Temperature _____ Received on ice Y or N Cooler Sealed Y or N Comments: _____ | | Retain Samples <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | | |
| For Rush Delivery, Specify Due Date: | | <input type="checkbox"/> | | 1920 Dekalb Road Rockford, IL 61112 815-394-4700 phone 815-394-4702 fax bpaluzzi@fetr-graham.com e-mail | | Sampled By: <u>Daniel Stoeber</u> | | ANALYSIS REQUESTED (Specify Method if applicable) | | |
| Delivery Method : (circle one) | | <input type="checkbox"/> Mail | <input type="checkbox"/> Fax | <input type="checkbox"/> Email | Internal Routing To: <u>pschlosser</u> | | <input type="checkbox"/> VOCs / Method B620 (See attached sheet for reporting requests) | <input type="checkbox"/> | <input type="checkbox"/> | |
| SAMPLE IDENTIFICATION | DATE SAMPLED | TIME OF COLLECTION | COMP | GRUB | Number and type of containers | | | | SAMPLE DESCRIPTION | VOCs / Method B620 (See attached sheet for reporting requests) |
| | | | | | HCl | HNO3 | H2SO4 | None | | |
| 26646-402009 | 10/15/2009 | 2pm | | x | 3 | | | | Groundwater Eluent | x |
| Reinquished By: <u>Daniel Stoeber</u> | Date: <u>10/15/09</u> | Time: <u>2:30pm</u> | Received By: <u>S K S</u> | Date: <u>10/16/09</u> | Time: <u>1625</u> | | | | | |
| Documented By: <u>Daniel Stoeber</u> | Date: <u></u> | Time: <u></u> | Received By: <u></u> | Date: <u></u> | Time: <u></u> | | | | | |
| Relinquished By: <u></u> | Date: <u></u> | Time: <u></u> | Received By: <u></u> | Date: <u></u> | Time: <u></u> | | | | | |

Login Sample Receipt Check List

Client: Fehr-Graham & Associates

Job Number: 500-21830-1
SDG Number: 500-21830-1

Login Number: 21830
Creator: Kelsey, Shawn M
List Number: 1

List Source: TestAmerica Chicago

| Question | T / F / NA | Comment |
|-----------------------------------------------------------------------------------|------------|---------|
| Radioactivity either was not measured or, if measured, is at or below background. | True | |
| The cooler's custody seal, if present, is intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| There are no discrepancies between the sample IDs on the containers and the COC. | True | |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter. | True | |
| If necessary, staff have been informed of any short hold time or quick TAT needs. | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or composting. | True | |
| Is the Field Sampler's name present on COC? | True | |
| Sample Preservation Verified | True | |

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 500-21830-1

SDG Number: 500-21830-1

Job Description: 09-233

For:

Fehr-Graham & Associates
221 E. Main Street, Suite 200
Freeport, IL 61032-4201

Attention: Ms. Amy Schlosser



Approved for release.
Donna L. Ingersoll
Project Manager II
3/4/2010 1:17 PM

Donna L. Ingersoll
Project Manager II
donna.ingersoll@testamericainc.com
03/04/2010
Revision: 1

cc: Ms. Donna Ingersoll

These test results meet all the requirements of NELAC for accredited parameters.

The Lab Certification ID# is 100201.

All questions regarding this test report should be directed to the TestAmerica Project Manager whose signature appears on this report. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

TestAmerica Laboratories, Inc.
TestAmerica Chicago 2417 Bond Street, University Park, IL 60484
Tel (708) 534-5200 Fax (708) 534-5211 www.testamericainc.com



Job Narrative
500-21830-1

Comments

No additional comments.

Receipt

Report revised to correct analyte list. Removed 1,2-DCE (total) and added cis- and trans-1,2-DCE.

All other samples were received in good condition within temperature requirements.

GC/MS VOA

No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: Fehr-Graham & Associates

Job Number: 500-21830-1
Sdg Number: 500-21830-1

| Lab Sample ID Analyte | Client Sample ID | Result / Qualifier | Reporting Limit | Units | Method |
|--------------------------|------------------|--------------------|--------------------|-------|--------|
| 500-21830-1 | 26646 4Q2009 | | | | |
| 1,1,1-Trichloroethane | | 0.048 | 0.0010 | mg/L | 8260B |
| 1,1-Dichloroethane | | 0.010 | 0.0010 | mg/L | 8260B |
| 1,1-Dichloroethene | | 0.012 | 0.0010 | mg/L | 8260B |
| Tetrachloroethene | | 0.41 | 0.0050 | mg/L | 8260B |
| Trichloroethene | | 0.021 | 0.0010 | mg/L | 8260B |
| cis-1,2-Dichloroethene | | 0.060 | 0.0010 | mg/L | 8260B |

METHOD SUMMARY

Client: Fehr-Graham & Associates

Job Number: 500-21830-1
Sdg Number: 500-21830-1

| Description | Lab Location | Method | Preparation Method |
|------------------------------------|--------------|-------------|--------------------|
| Matrix: Water | | | |
| Volatile Organic Compounds (GC/MS) | TAL CHI | SW846 8260B | |
| Purge and Trap | TAL CHI | | SW846 5030B |

Lab References:

TAL CHI = TestAmerica Chicago

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Fehr-Graham & Associates

Job Number: 500-21830-1
Sdg Number: 500-21830-1

| Method | Analyst | Analyst ID |
|-------------|------------------|------------|
| SW846 8260B | Alikpala, Elaine | EA |

SAMPLE SUMMARY

Client: Fehr-Graham & Associates

Job Number: 500-21830-1
Sdg Number: 500-21830-1

| Lab Sample ID | Client Sample ID | Client Matrix | Date/Time Sampled | Date/Time Received |
|---------------|------------------|---------------|-------------------|--------------------|
| 500-21830-1 | 26646 4Q2009 | Water | 10/15/2009 1400 | 10/16/2009 1025 |

SAMPLE RESULTS

Ms. Amy Schlosser
Fehr-Graham & Associates
221 E. Main Street, Suite 200
Freeport, IL 61032-4201

Job Number: 500-21830-1
Sdg Number: 500-21830-1

Client Sample ID: 26646 4Q2009
Lab Sample ID: 500-21830-1

Date Sampled: 10/15/2009 1400
Date Received: 10/16/2009 1025
Client Matrix: Water

| Analyte | Result/Qualifier | Unit | MDL | RL | Dilution |
|-----------------------------------|------------------|------|-------------------|-----------------|----------|
| Method: 8260B | | | Date Analyzed: | 10/20/2009 1721 | |
| Prep Method: 5030B | | | Date Prepared: | 10/20/2009 1721 | |
| 1,1,1-Trichloroethane | 0.048 | mg/L | 0.00014 | 0.0010 | 1.0 |
| 1,1-Dichloroethane | 0.010 | mg/L | 0.00012 | 0.0010 | 1.0 |
| 1,1-Dichloroethene | 0.012 | mg/L | 0.00023 | 0.0010 | 1.0 |
| Acetone | <0.0050 | mg/L | 0.0021 | 0.0050 | 1.0 |
| Trichloroethene | 0.021 | mg/L | 0.00016 | 0.0010 | 1.0 |
| Xylenes, Total | <0.0020 | mg/L | 0.00042 | 0.0020 | 1.0 |
| trans-1,2-Dichloroethene | <0.0010 | mg/L | 0.00018 | 0.0010 | 1.0 |
| cis-1,2-Dichloroethene | 0.060 | mg/L | 0.00015 | 0.0010 | 1.0 |
| Surrogate | | | Acceptance Limits | | |
| 1,2-Dichloroethane-d4 (Surr) | 113 | % | 72 - 135 | | |
| 4-Bromofluorobenzene (Surr) | 88 | % | 77 - 120 | | |
| Toluene-d8 (Surr) | 97 | % | 80 - 120 | | |
| Dibromofluoromethane | 114 | % | 79 - 133 | | |
| Method: 8260B Run Type: DL | | | Date Analyzed: | 10/19/2009 2023 | |
| Prep Method: 5030B | | | Date Prepared: | 10/19/2009 2023 | |
| Tetrachloroethene | 0.41 | mg/L | 0.0010 | 0.0050 | 5.0 |
| Surrogate | | | Acceptance Limits | | |
| 1,2-Dichloroethane-d4 (Surr) | 108 | % | 72 - 135 | | |
| 4-Bromofluorobenzene (Surr) | 88 | % | 77 - 120 | | |
| Toluene-d8 (Surr) | 94 | % | 80 - 120 | | |
| Dibromofluoromethane | 113 | % | 79 - 133 | | |

DATA REPORTING QUALIFIERS

| Lab Section | Qualifier | Description |
|--------------------|------------------|--------------------|
|--------------------|------------------|--------------------|

QUALITY CONTROL RESULTS

Quality Control Results

Client: Fehr-Graham & Associates

Job Number: 500-21830-1
Sdg Number: 500-21830-1

QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|---------------------------------|------------------------------|--------------|---------------|--------|------------|
| GC/MS VOA | | | | | |
| Analysis Batch:500-73808 | | | | | |
| LCS 500-73808/6 | Lab Control Sample | T | Water | 8260B | |
| LCSD 500-73808/15 | Lab Control Sample Duplicate | T | Water | 8260B | |
| MB 500-73808/5 | Method Blank | T | Water | 8260B | |
| 500-21830-1DL | 26646 4Q2009 | T | Water | 8260B | |
| Analysis Batch:500-73862 | | | | | |
| LCS 500-73862/9 | Lab Control Sample | T | Water | 8260B | |
| MB 500-73862/8 | Method Blank | T | Water | 8260B | |
| 500-21830-1 | 26646 4Q2009 | T | Water | 8260B | |

Report Basis

T = Total

Quality Control Results

Client: Fehr-Graham & Associates

Job Number: 500-21830-1
Sdg Number: 500-21830-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

| Lab Sample ID | Client Sample ID | DCA %Rec | BFB %Rec | TOL %Rec | DBFM %Rec |
|-------------------|------------------|-------------|-------------|-------------|--------------|
| 500-21830-1 DL | 26646 4Q2009 DL | 108 | 88 | 94 | 113 |
| 500-21830-1 | 26646 4Q2009 | 113 | 88 | 97 | 114 |
| MB 500-73808/5 | | 104 | 91 | 95 | 107 |
| MB 500-73862/8 | | 104 | 89 | 96 | 107 |
| LCS 500-73808/6 | | 105 | 95 | 99 | 104 |
| LCS 500-73862/9 | | 104 | 97 | 99 | 104 |
| LCSD 500-73808/15 | | 105 | 95 | 100 | 110 |

| Surrogate | Acceptance Limits |
|------------------------------------|-------------------|
| DCA = 1,2-Dichloroethane-d4 (Surr) | 72-135 |
| BFB = 4-Bromofluorobenzene (Surr) | 77-120 |
| TOL = Toluene-d8 (Surr) | 80-120 |
| DBFM = Dibromofluoromethane | 79-133 |

Quality Control Results

Client: Fehr-Graham & Associates

Job Number: 500-21830-1
Sdg Number: 500-21830-1

Method Blank - Batch: 500-73808

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 500-73808/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/19/2009 1253
Date Prepared: 10/19/2009 1253

Analysis Batch: 500-73808
Prep Batch: N/A
Units: mg/L

Instrument ID: MS22
Lab File ID: 22M1019.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

| Analyte | Result | Qual | MDL | RL |
|------------------------------|---------|------|-------------------|--------|
| 1,1,1-Trichloroethane | <0.0010 | | 0.00014 | 0.0010 |
| 1,1-Dichloroethane | <0.0010 | | 0.00012 | 0.0010 |
| 1,1-Dichloroethene | <0.0010 | | 0.00023 | 0.0010 |
| 1,2-Dichloroethene, Total | <0.0020 | | 0.00026 | 0.0020 |
| Acetone | <0.0050 | | 0.0021 | 0.0050 |
| Tetrachloroethene | <0.0010 | | 0.00020 | 0.0010 |
| Trichloroethene | <0.0010 | | 0.00016 | 0.0010 |
| Xylenes, Total | <0.0020 | | 0.00042 | 0.0020 |
| trans-1,2-Dichloroethene | <0.0010 | | 0.00018 | 0.0010 |
| cis-1,2-Dichloroethene | <0.0010 | | 0.00015 | 0.0010 |
| Surrogate | % Rec | | Acceptance Limits | |
| 1,2-Dichloroethane-d4 (Surr) | 104 | | 72 - 135 | |
| 4-Bromofluorobenzene (Surr) | 91 | | 77 - 120 | |
| Toluene-d8 (Surr) | 95 | | 80 - 120 | |
| Dibromofluoromethane | 107 | | 79 - 133 | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Fehr-Graham & Associates

Job Number: 500-21830-1
Sdg Number: 500-21830-1

Lab Control Sample/ Lab Control Sample Duplicate Recovery Report - Batch: 500-73808

Method: 8260B

Preparation: 5030B

LCS Lab Sample ID: LCS 500-73808/6

Client Matrix: Water

Dilution: 1.0

Date Analyzed: 10/19/2009 1314

Date Prepared: 10/19/2009 1314

Analysis Batch: 500-73808

Prep Batch: N/A

Units: mg/L

Instrument ID: MS22

Lab File ID: 22S1019A.D

Initial Weight/Volume: 10 mL

Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 500-73808/15

Client Matrix: Water

Dilution: 1.0

Date Analyzed: 10/19/2009 2208

Date Prepared: 10/19/2009 2208

Analysis Batch: 500-73808

Prep Batch: N/A

Units: mg/L

Instrument ID: MS22

Lab File ID: 22T1019.D

Initial Weight/Volume: 10 mL

Final Weight/Volume: 10 mL

| Analyte | % Rec. | | Limit | RPD | RPD Limit | LCS Qual | LCSD Qual |
|------------------------------|-----------|------|------------|-----|-------------------|----------|-----------|
| | LCS | LCSD | | | | | |
| 1,1,1-Trichloroethane | 107 | 109 | 64 - 122 | 2 | 20 | | |
| 1,1-Dichloroethane | 104 | 105 | 65 - 120 | 1 | 20 | | |
| 1,1-Dichloroethene | 102 | 103 | 55 - 129 | 1 | 20 | | |
| 1,2-Dichloroethene, Total | 105 | 106 | 68 - 120 | 1 | 20 | | |
| Acetone | 104 | 101 | 29 - 152 | 2 | 20 | | |
| Tetrachloroethene | 99 | 94 | 70 - 120 | 5 | 20 | | |
| Trichloroethene | 104 | 101 | 71 - 120 | 3 | 20 | | |
| Xylenes, Total | 104 | 99 | 74 - 120 | 4 | 20 | | |
| trans-1,2-Dichloroethene | 107 | 109 | 66 - 120 | 1 | 20 | | |
| cis-1,2-Dichloroethene | 103 | 103 | 72 - 123 | 0 | 20 | | |
| Surrogate | LCS % Rec | | LCSD % Rec | | Acceptance Limits | | |
| 1,2-Dichloroethane-d4 (Surr) | 105 | | 105 | | 72 - 135 | | |
| 4-Bromofluorobenzene (Surr) | 95 | | 95 | | 77 - 120 | | |
| Toluene-d8 (Surr) | 99 | | 100 | | 80 - 120 | | |
| Dibromofluoromethane | 104 | | 110 | | 79 - 133 | | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Fehr-Graham & Associates

Job Number: 500-21830-1
Sdg Number: 500-21830-1

Method Blank - Batch: 500-73862

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 500-73862/8
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/20/2009 1224
Date Prepared: 10/20/2009 1224

Analysis Batch: 500-73862
Prep Batch: N/A
Units: mg/L

Instrument ID: MS22
Lab File ID: 22M1020.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

| Analyte | Result | Qual | MDL | RL |
|------------------------------|---------|------|-------------------|--------|
| 1,1,1-Trichloroethane | <0.0010 | | 0.00014 | 0.0010 |
| 1,1-Dichloroethane | <0.0010 | | 0.00012 | 0.0010 |
| 1,1-Dichloroethene | <0.0010 | | 0.00023 | 0.0010 |
| 1,2-Dichloroethene, Total | <0.0020 | | 0.00026 | 0.0020 |
| Acetone | <0.0050 | | 0.0021 | 0.0050 |
| Tetrachloroethene | <0.0010 | | 0.00020 | 0.0010 |
| Trichloroethene | <0.0010 | | 0.00016 | 0.0010 |
| Xylenes, Total | <0.0020 | | 0.00042 | 0.0020 |
| trans-1,2-Dichloroethene | <0.0010 | | 0.00018 | 0.0010 |
| cis-1,2-Dichloroethene | <0.0010 | | 0.00015 | 0.0010 |
| Surrogate | % Rec | | Acceptance Limits | |
| 1,2-Dichloroethane-d4 (Surr) | 104 | | 72 - 135 | |
| 4-Bromofluorobenzene (Surr) | 89 | | 77 - 120 | |
| Toluene-d8 (Surr) | 96 | | 80 - 120 | |
| Dibromofluoromethane | 107 | | 79 - 133 | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Fehr-Graham & Associates

Job Number: 500-21830-1
Sdg Number: 500-21830-1

Lab Control Sample - Batch: 500-73862

Method: 8260B
Preparation: 5030B

Lab Sample ID: LCS 500-73862/9
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/20/2009 1141
Date Prepared: 10/20/2009 1141

Analysis Batch: 500-73862
Prep Batch: N/A
Units: mg/L

Instrument ID: MS22
Lab File ID: 22S1020.D
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|------------------------------|--------------|--------|--------|-------------------|------|
| 1,1,1-Trichloroethane | 0.0250 | 0.0246 | 98 | 64 - 122 | |
| 1,1-Dichloroethane | 0.0250 | 0.0240 | 96 | 65 - 120 | |
| 1,1-Dichloroethene | 0.0250 | 0.0230 | 92 | 55 - 129 | |
| 1,2-Dichloroethene, Total | 0.0500 | 0.0484 | 97 | 68 - 120 | |
| Acetone | 0.0250 | 0.0205 | 82 | 29 - 152 | |
| Tetrachloroethene | 0.0250 | 0.0229 | 92 | 70 - 120 | |
| Trichloroethene | 0.0250 | 0.0237 | 95 | 71 - 120 | |
| Xylenes, Total | 0.0750 | 0.0721 | 96 | 74 - 120 | |
| trans-1,2-Dichloroethene | 0.0250 | 0.0247 | 99 | 66 - 120 | |
| cis-1,2-Dichloroethene | 0.0250 | 0.0237 | 95 | 72 - 123 | |
| Surrogate | | % Rec | | Acceptance Limits | |
| 1,2-Dichloroethane-d4 (Surr) | | 104 | | 72 - 135 | |
| 4-Bromofluorobenzene (Surr) | | 97 | | 77 - 120 | |
| Toluene-d8 (Surr) | | 99 | | 80 - 120 | |
| Dibromofluoromethane | | 104 | | 79 - 133 | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Chain of Custody Record

500-21830

| | | | | | | | | | | | | | | | | | | |
|-----------------------------------------|--|------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------|-------------------------------------|----------------------------|------|----------|-------|-------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|------------------------------------------------------------------------------------|--|--|
| Project Number : 09-233 | | Deliver Report To : (check one) | | <p style="text-align: center;"><input checked="" type="checkbox"/> 221 East Main Street Suite 200 Freeport, IL 61032 815-235-7643 phone 815-235-4632 fax aschlosser@fehr-graham.com e-mail</p> <p style="text-align: center;"><input type="checkbox"/> 1920 Daimler Road Rockford, IL 61112 815-394-4700 phone 815-394-4702 fax bpaluzzi@fehr-graham.com e-mail</p> | | | | | | | | | | LAB USE ONLY | | Page <u>1</u> of <u>1</u> | | |
| Turnaround Time (circle one) : | | <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush | | | | | | | | | | | | Login ID # _____ Login By _____ Lab Proj/ID # _____ Sample Temperature _____ Received on ice <input checked="" type="checkbox"/> Y or <input type="checkbox"/> N Cooler Sealed <input checked="" type="checkbox"/> Y or <input type="checkbox"/> N Comments: _____ | | Retain Samples <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | | |
| For Rush Delivery, Specify Due Date: | | | | | | | | | | | | | | | | | | |
| Delivery Method : (circle one) | | <input checked="" type="checkbox"/> Mail <input type="checkbox"/> Fax <input type="checkbox"/> Email | | | | | | | | | | | | Sampled By: <i>Daniel Stoehr</i> ANALYSIS REQUESTED (Specify Method if applicable) | | | | |
| | | | | Internal Routing To: <i>Amber S. Schlosser</i> | | | | | | | | | | | | | | |
| SAMPLE IDENTIFICATION | | DATE SAMPLED | | TIME OF COLLECTION | | COMP | GRAB | HCl | NaOH | HNO3 | H2SO4 | NONE | OTHER | SAMPLE DESCRIPTION | VOC's - Method 8260 - (See attached sheet for reporting requests) | | | |
| 26646 4Q2009 | | 10/15/2009 | | <i>2pm</i> | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> 3 | | | | | | Groundwater Effluent | <input checked="" type="checkbox"/> | | | |
| | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | |
| Relinquished By: | | | | Date: | | Time: | | Received By: | | Date: | | Time: | | | | | | |
| <i>Daniel Stoehr</i> | | | | 10/15/09 | | <i>2:30pm</i> | | <i>SKS</i> | | 10/16/09 | | <i>1025</i> | | | | | | |
| Relinquished By: | | | | Date: | | Time: | | Received By: | | Date: | | Time: | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| Relinquished By: | | | | Date: | | Time: | | Received By: | | Date: | | Time: | | | | | | |

500-21830

Fehr-Graham & Associates

Project: 09-233

Sample ID: 26059-2Q2009

Sample Characteristics: Groundwater Remediation Effluent

Sample to be collected on: May 28, 2009

Number of Samples: One (1)

FGA Contact for questions: Joel Zirkle (815-394-4700) or Ken Thompson (815-235-7643)

Analyze for VOC's Method 8260 but only report for the following constituents:

1. Acetone
2. 1,1-Dichloroethane
3. 1,1-Dichloroethene
4. 1,2-Dichloroethene
5. 1,1,1-Trichloroethane
6. Trichloroethene
7. Tetrachloroethene
8. Total Xylenes

I:\Documents\2009\09-233\GW Remediation System Sample Parameters.doc

Login Sample Receipt Check List

Client: Fehr-Graham & Associates

Job Number: 500-21830-1
SDG Number: 500-21830-1

Login Number: 21830

List Source: TestAmerica Chicago

Creator: Kelsey, Shawn M

List Number: 1

| Question | T / F / NA | Comment |
|----------------------------------------------------------------------------------|------------|---------|
| Radioactivity either was not measured or, if measured, is at or below background | True | |
| The cooler's custody seal, if present, is intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| There are no discrepancies between the sample IDs on the containers and the COC. | True | |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter. | True | |
| If necessary, staff have been informed of any short hold time or quick TAT needs | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Is the Field Sampler's name present on COC? | True | |
| Sample Preservation Verified | True | |

ATTACHMENT 3

Laboratory Report for 2009 Annual Sampling

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

704 Enterprise Drive Cedar Falls, IA 50613 * 800-750-2401 * Fax 319-277-2425

October 29, 2009

Client:

FEHR-GRAHAM & ASSOCIATES - FREEPORT
221 E. Main Street, Ste. 200
Freeport, IL 61032

Work Order: CSJ0896
Project Name: Sauer Danfoss
Project Number: [none]

Attn: Joel Zirkle

Date Received: 10/15/09

The Chain(s) of Custody, 4 pages, are included and are an integral part of this report.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(800)750-2401

| SAMPLE IDENTIFICATION | LAB NUMBER | COLLECTION DATE AND TIME |
|-----------------------|------------|--------------------------|
| 26607-MW-R30 | CSJ0896-01 | 10/15/09 14:10 |
| 26608-MW-31 | CSJ0896-02 | 10/15/09 11:30 |
| 26609-MW-33 | CSJ0896-03 | 10/15/09 14:35 |
| 26610-MW-19 | CSJ0896-04 | 10/15/09 16:00 |
| 26611-MW-20 | CSJ0896-05 | 10/15/09 17:00 |
| 26612-EB-01 | CSJ0896-06 | 10/15/09 13:45 |
| 26613-EB-02 | CSJ0896-07 | 10/15/09 14:35 |
| 26615-D01 | CSJ0896-08 | 10/15/09 |

SW 9056 analysis performed at Lab ID: 131

Samples were received into laboratory at a temperature of 7.50 °C.

NELAC states that samples which require thermal preservation shall be considered acceptable if the arrival temperature is within 2 degrees C of the required temperature or the method specified range. For samples with a temperature requirement of 4 degrees C, an arrival temperature from 0 degrees C to 6 degrees C meets specifications. Samples that are delivered to the laboratory on the same day that they are collected may not meet these criteria. In these cases, the samples are considered acceptable if there is evidence that the chilling process has begun, such as arrival on ice.

Please refer to the Temperature and Sample Receipt form that is included with this report for additional information regarding the condition of samples at the time of receipt by the laboratory.

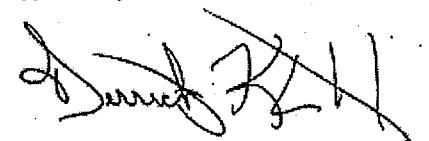
The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted.

Iowa Certification Number: 007

Reproduction of this analytical report is permitted only in its entirety. This report shall not be reproduced except in full without the written approval of the laboratory.

TestAmerica Laboratories, Inc. certifies that the analytical results contained herein apply only to the specific sample analyzed.

Approved By:



TestAmerica Cedar Falls
Derrick Klinkenberg
Organics Manager

FEHR-GRAHAM & ASSOCIATES - FREEPORT
 221 E. Main Street, Ste. 200
 Freeport, IL 61032
 Joel Zirkle

Work Order: CSJ0896
 Project: Sauer Danfoss
 Project Number: [none]

Received: 10/15/09
 Reported: 10/29/09 16:18

ANALYTICAL REPORT

| Analyte | Sample Result | Data Qualifiers | Units | MDL | MRL | Dilution Factor | Date Analyzed | Analyst | Seq/Batch | Method | |
|------------------------------------------------------------|---------------|-----------------|-------|-----|------|--------------------------------|----------------|---------|-----------------------------|----------|--|
| Sample ID: CSJ0896-01 (26607-MW-R30 - Ground Water) | | | | | | Sampled: 10/15/09 14:10 | | | Revd: 10/15/09 19:00 | | |
| Sampled By: Mike Day | | | | | | Phone (815) 235-7643 | | | | | |
| Volatile Organic Compounds | | | | | | | | | | | |
| Acetone | <10.0 | | ug/L | | 10.0 | 1 | 10/17/09 01:38 | sjn | 9100863 | SW 8260B | |
| 1,1-Dichloroethane | <1.00 | | ug/L | | 1.00 | 1 | 10/17/09 01:38 | sjn | 9100863 | SW 8260B | |
| 1,2-Dichloroethane | <1.00 | | ug/L | | 1.00 | 1 | 10/17/09 01:38 | sjn | 9100863 | SW 8260B | |
| 1,1-Dichloroethene | <2.00 | | ug/L | | 2.00 | 1 | 10/17/09 01:38 | sjn | 9100863 | SW 8260B | |
| cis-1,2-Dichloroethene | <1.00 | | ug/L | | 1.00 | 1 | 10/17/09 01:38 | sjn | 9100863 | SW 8260B | |
| trans-1,2-Dichloroethene | <1.00 | | ug/L | | 1.00 | 1 | 10/17/09 01:38 | sjn | 9100863 | SW 8260B | |
| Methylene Chloride | <5.00 | | ug/L | | 5.00 | 1 | 10/17/09 01:38 | sjn | 9100863 | SW 8260B | |
| Tetrachloroethene | 63.6 | | ug/L | | 1.00 | 1 | 10/17/09 01:38 | sjn | 9100863 | SW 8260B | |
| 1,1,1-Trichloroethane | 3.07 | | ug/L | | 1.00 | 1 | 10/17/09 01:38 | sjn | 9100863 | SW 8260B | |
| 1,1,2-Trichloroethane | <1.00 | | ug/L | | 1.00 | 1 | 10/17/09 01:38 | sjn | 9100863 | SW 8260B | |
| Trichloroethene | 37.6 M1 | | ug/L | | 1.00 | 1 | 10/17/09 01:38 | sjn | 9100863 | SW 8260B | |
| Vinyl chloride | <1.00 | | ug/L | | 1.00 | 1 | 10/17/09 01:38 | sjn | 9100863 | SW 8260B | |
| Xylenes, total | <4.00 | | ug/L | | 4.00 | 1 | 10/17/09 01:38 | sjn | 9100863 | SW 8260B | |
| Surr: Dibromoformmethane (80-120%) | 110 % | | | | | | | | | | |
| Surr: Toluene-d8 (80-110%) | 100 % | | | | | | | | | | |
| Surr: 4-Bromofluorobenzene (65-115%) | 93 % | | | | | | | | | | |
| VOC Preservation Check | | | | | | | | | | | |
| pH | <2.00 | | units | | 2.00 | 1 | 10/20/09 15:21 | am | 9100855 | SW | |

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

704 Enterprise Drive Cedar Falls, IA 50613 * 800-750-2401 * Fax 319-277-2425

FEHR-GRAHAM & ASSOCIATES - FREEPORT
221 E. Main Street, Ste. 200
Freeport, IL 61032
Joel Zirkle

Work Order: CSJ0896

Received: 10/15/09

Project: Sauer Danfoss

Reported: 10/29/09 16:18

Project Number: [none]

ANALYTICAL REPORT

| Analyte | Sample Result | Data Qualifiers | Units | MDL | MRL | Dilution Factor | Date Analyzed | Analyst | Seq/Batch | Method |
|-----------------------------------------------------------|---------------|-----------------|-------|------|-----|-----------------|---------------|---------|-----------|--------|
| Sample ID: CSJ0896-02 (26608-MW-31 - Ground Water) | | | | | | | | | | |
| Sampled By: Mike Day | | | | | | | | | | |
| Phone (815) 235-7643 | | | | | | | | | | |
| Volatile Organic Compounds | | | | | | | | | | |
| Acetone | <10.0 | | ug/L | 10.0 | 1 | 10/17/09 14:01 | sjn | 9100870 | SW 8260B | |
| 1,1-Dichloroethane | <1.00 | | ug/L | 1.00 | 1 | 10/17/09 14:01 | sjn | 9100870 | SW 8260B | |
| 1,2-Dichloroethane | <1.00 | | ug/L | 1.00 | 1 | 10/17/09 14:01 | sjn | 9100870 | SW 8260B | |
| 1,1-Dichloroethene | <2.00 R | | ug/L | 2.00 | 1 | 10/17/09 14:01 | sjn | 9100870 | SW 8260B | |
| cis-1,2-Dichloroethene | <1.00 | | ug/L | 1.00 | 1 | 10/17/09 14:01 | sjn | 9100870 | SW 8260B | |
| trans-1,2-Dichloroethene | <1.00 | | ug/L | 1.00 | 1 | 10/17/09 14:01 | sjn | 9100870 | SW 8260B | |
| Methylene Chloride | <5.00 | | ug/L | 5.00 | 1 | 10/17/09 14:01 | sjn | 9100870 | SW 8260B | |
| Tetrachloroethene | 5.72 | | ug/L | 1.00 | 1 | 10/17/09 14:01 | sjn | 9100870 | SW 8260B | |
| 1,1,1-Trichloroethane | <1.00 | | ug/L | 1.00 | 1 | 10/17/09 14:01 | sjn | 9100870 | SW 8260B | |
| 1,1,2-Trichloroethane | <1.00 | | ug/L | 1.00 | 1 | 10/17/09 14:01 | sjn | 9100870 | SW 8260B | |
| Trichloroethene | <1.00 | | ug/L | 1.00 | 1 | 10/17/09 14:01 | sjn | 9100870 | SW 8260B | |
| Vinyl chloride | <1.00 | | ug/L | 1.00 | 1 | 10/17/09 14:01 | sjn | 9100870 | SW 8260B | |
| Xylenes, total | <4.00 | | ug/L | 4.00 | 1 | 10/17/09 14:01 | sjn | 9100870 | SW 8260B | |
| Surr: Dibromoiodomethane (80-120%) | 93 % | | | | | | | | | |
| Surr: Toluene-d8 (80-110%) | 98 % | | | | | | | | | |
| Surr: 4-Bromoiodobenzene (65-115%) | 96 % | | | | | | | | | |
| VOC Preservation Check | | | | | | | | | | |
| pH | <2.00 | | units | 2.00 | 1 | 10/20/09 15:21 | am | 9100855 | SW | |

FEHR-GRAHAM & ASSOCIATES - FREEPORT
 221 E. Main Street, Ste. 200
 Freeport, IL 61032
 Joel Zirkle

Work Order: CSJ0896

 Received: 10/15/09
 Reported: 10/29/09 16:18

 Project: Sauer Danfoss
 Project Number: [none]

ANALYTICAL REPORT

| Analyte | Sample Result | Data Qualifiers | Units | MDL | MRL | Dilution Factor | Date Analyzed | Analyst | Seq/Batch | Method |
|-----------------------------------------------------------|---------------|-----------------|-------|------|-----|-----------------|---------------|---------|---------------|--------|
| Sample ID: CSJ0896-03 (26609-MW-33 - Ground Water) | | | | | | | | | | |
| Sampled By: Mike Day | | | | | | | | | | |
| Sampled: 10/15/09 14:35 | | | | | | | | | | |
| Phone: (815) 235-7643 | | | | | | | | | | |
| Received: 10/15/09 19:00 | | | | | | | | | | |
| Volatile Organic Compounds | | | | | | | | | | |
| Acetone | <10.0 | | ug/L | 10.0 | 1 | 10/17/09 14:27 | sjn | 9100870 | SW 8260B | |
| 1,1-Dichloroethane | <1.00 | | ug/L | 1.00 | 1 | 10/17/09 14:27 | sjn | 9100870 | SW 8260B | |
| 1,2-Dichloroethane | <1.00 | | ug/L | 1.00 | 1 | 10/17/09 14:27 | sjn | 9100870 | SW 8260B | |
| 1,1-Dichloroethene | <2.00 | | ug/L | 2.00 | 1 | 10/17/09 14:27 | sjn | 9100870 | SW 8260B | |
| cis-1,2-Dichloroethene | <1.00 | | ug/L | 1.00 | 1 | 10/17/09 14:27 | sjn | 9100870 | SW 8260B | |
| trans-1,2-Dichloroethene | <1.00 | | ug/L | 1.00 | 1 | 10/17/09 14:27 | sjn | 9100870 | SW 8260B | |
| Methylene Chloride | <5.00 | | ug/L | 5.00 | 1 | 10/17/09 14:27 | sjn | 9100870 | SW 8260B | |
| Tetrachloroethene | 3.18 | | ug/L | 1.00 | 1 | 10/17/09 14:27 | sjn | 9100870 | SW 8260B | |
| 1,1,1-Trichloroethane | <1.00 | | ug/L | 1.00 | 1 | 10/17/09 14:27 | sjn | 9100870 | SW 8260B | |
| 1,1,2-Trichloroethane | <1.00 | | ug/L | 1.00 | 1 | 10/17/09 14:27 | sjn | 9100870 | SW 8260B | |
| Trichloroethene | <1.00 | | ug/L | 1.00 | 1 | 10/17/09 14:27 | sjn | 9100870 | SW 8260B | |
| Vinyl chloride | <1.00 | | ug/L | 1.00 | 1 | 10/17/09 14:27 | sjn | 9100870 | SW 8260B | |
| Xylenes, total | <4.00 | | ug/L | 4.00 | 1 | 10/17/09 14:27 | sjn | 9100870 | SW 8260B | |
| Surr: Dibromo/fluoromethane (80-120%) | 87 % | | | | | | | | | |
| Surr: Toluene-d8 (80-110%) | 96 % | | | | | | | | | |
| Surr: 4-Bromo/fluorobenzene (65-115%) | 96 % | | | | | | | | | |
| VOC Preservation Check | | | | | | | | | | |
| pH | <2.00 | | units | 2.00 | 1 | 10/20/09 15:21 | am | 9100855 | SW | |
| 1,4-DIOXANE BY GCMS - SINGLE ION MONITORING (SIM) | | | | | | | | | | |
| 1,4-Dioxane | <2.0 | | ug/l | 2.0 | 1 | 10/21/09 15:32 | GMK | 9J21019 | EPA 8260B-SIM | |
| Surr: Dibromo/fluoromethane (80-120%) | 116 % | | | | | | | | | |

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 221 E. Main Street, Ste. 200
 Freeport, IL 61032
 Joel Zirkle

Work Order: CSJ0896
 Received: 10/15/09
 Project: Sauer Danfoss
 Reported: 10/29/09 16:18
 Project Number: [none]

ANALYTICAL REPORT

| Analyte | Sample Result | Data Qualifiers | Units | MDL | MRL | Dilution Factor | Date Analyzed | Analyst | Seq/ Batch | Method | |
|----------------------------------------------------|---------------|-----------------|-------------------------|------|-----|-----------------|---------------|---------|------------|---------------|----------------------|
| Sample ID: CSJ0896-04 (26610-MW-19 - Ground Water) | | | Sampled: 10/15/09 16:00 | | | | | | | | Revd: 10/15/09 19:00 |
| Sampled By: Mike Day | | | Phone (815) 235-7643 | | | | | | | | |
| Volatile Organic Compounds | | | | | | | | | | | |
| Acetone | <10.0 | | ug/L | 10.0 | 1 | 10/17/09 14:53 | | sjn | 9100870 | SW 8260B | |
| 1,1-Dichloroethane | 1.60 | | ug/L | 1.00 | 1 | 10/17/09 14:53 | | sjn | 9100870 | SW 8260B | |
| 1,2-Dichloroethane | <1.00 | | ug/L | 1.00 | 1 | 10/17/09 14:53 | | sjn | 9100870 | SW 8260B | |
| 1,1-Dichloroethene | <2.00 | | ug/L | 2.00 | 1 | 10/17/09 14:53 | | sjn | 9100870 | SW 8260B | |
| cis-1,2-Dichloroethene | 3.41 | | ug/L | 1.00 | 1 | 10/17/09 14:53 | | sjn | 9100870 | SW 8260B | |
| trans-1,2-Dichloroethene | <1.00 | | ug/L | 1.00 | 1 | 10/17/09 14:53 | | sjn | 9100870 | SW 8260B | |
| Methylene Chloride | <5.00 | | ug/L | 5.00 | 1 | 10/17/09 14:53 | | sjn | 9100870 | SW 8260B | |
| Tetrachloroethene | 38.0 | | ug/L | 1.00 | 1 | 10/17/09 14:53 | | sjn | 9100870 | SW 8260B | |
| 1,1,1-Trichloroethane | 6.83 | | ug/L | 1.00 | 1 | 10/17/09 14:53 | | sjn | 9100870 | SW 8260B | |
| 1,1,2-Trichloroethane | <1.00 | | ug/L | 1.00 | 1 | 10/17/09 14:53 | | sjn | 9100870 | SW 8260B | |
| Trichloroethene | 3.64 | | ug/L | 1.00 | 1 | 10/17/09 14:53 | | sjn | 9100870 | SW 8260B | |
| Vinyl chloride | <1.00 | | ug/L | 1.00 | 1 | 10/17/09 14:53 | | sjn | 9100870 | SW 8260B | |
| Xylenes, total | <4.00 | | ug/L | 4.00 | 1 | 10/17/09 14:53 | | sjn | 9100870 | SW 8260B | |
| Surr: Dibromoformmethane (80-120%) | 92 % | | | | | | | | | | |
| Surr: Toluene-d8 (80-110%) | 97 % | | | | | | | | | | |
| Surr: 4-Bromofluorobenzene (65-115%) | 95 % | | | | | | | | | | |
| VOC Preservation Check | | | | | | | | | | | |
| pH | <2.00 | | units | 2.00 | 1 | 10/20/09 15:21 | | am | 9100855 | SW | |
| 1,4-DIOXANE BY GCMS - SINGLE ION MONITORING (SIM) | | | | | | | | | | | |
| 1,4-Dioxane | 3.5 | | ug/l | 2.0 | 1 | 10/21/09 15:01 | | GMK | 9J21019 | EPA 8260B-SIM | |
| Surr: Dibromoformmethane (80-120%) | 116 % | | | | | | | | | | |



THE LEADER IN ENVIRONMENTAL TESTING

704 Enterprise Drive Cedar Falls, IA 50613 * 800-750-2401 * Fax 319-277-2425

FEHR-GRAHAM & ASSOCIATES - FREEPORT
221 E. Main Street, Ste. 200
Freeport, IL 61032
Joel Zirkle

Work Order: CSJ0896

Project: Sauer Danfoss

Project Number: [none]

Received: 10/15/09
Reported: 10/29/09 16:18

ANALYTICAL REPORT

TestAmerica Cedar Falls
Derrick Klinkenberg
Organics Manager

FEHR-GRAHAM & ASSOCIATES - FREEPORT
 221 E. Main Street, Ste. 200
 Freeport, IL 61032
 Joel Zirkle

Work Order: CSJ0896
 Project: Sauer Danfoss
 Project Number: [none]

Received: 10/15/09
 Reported: 10/29/09 16:18

ANALYTICAL REPORT

| Analyte | Sample Result | Data Qualifiers | Units | MDL | MRL | Dilution Factor | Date Analyzed | Analyst | Seq/Batch | Method |
|-----------------------------------------------------------|---------------|-----------------|-------|------|-----|-----------------|---------------|---------|---------------|--------|
| Sample ID: CSJ0896-06 (26612-EB-01 - Ground Water) | | | | | | | | | | |
| Sampled By: Mike Day | | | | | | | | | | |
| Sampled: 10/15/09 13:45 Recvd: 10/15/09 19:00 | | | | | | | | | | |
| Phone (815) 235-7643 | | | | | | | | | | |
| Volatile Organic Compounds | | | | | | | | | | |
| Acetone | <10.0 | | ug/L | 10.0 | 1 | 10/18/09 00:42 | FMK | 9100877 | SW 8260B | |
| 1,1-Dichloroethane | <1.00 | | ug/L | 1.00 | 1 | 10/18/09 00:42 | FMK | 9100877 | SW 8260B | |
| 1,2-Dichloroethane | <1.00 | | ug/L | 1.00 | 1 | 10/18/09 00:42 | FMK | 9100877 | SW 8260B | |
| 1,1-Dichloroethene | <2.00 | | ug/L | 2.00 | 1 | 10/18/09 00:42 | FMK | 9100877 | SW 8260B | |
| cis-1,2-Dichloroethene | <1.00 | | ug/L | 1.00 | 1 | 10/18/09 00:42 | FMK | 9100877 | SW 8260B | |
| trans-1,2-Dichloroethene | <1.00 | | ug/L | 1.00 | 1 | 10/18/09 00:42 | FMK | 9100877 | SW 8260B | |
| Methylene Chloride | <5.00 | | ug/L | 5.00 | 1 | 10/18/09 00:42 | FMK | 9100877 | SW 8260B | |
| Tetrachloroethene | <1.00 | | ug/L | 1.00 | 1 | 10/18/09 00:42 | FMK | 9100877 | SW 8260B | |
| 1,1,1-Trichloroethane | <1.00 | | ug/L | 1.00 | 1 | 10/18/09 00:42 | FMK | 9100877 | SW 8260B | |
| 1,1,2-Trichloroethane | <1.00 | | ug/L | 1.00 | 1 | 10/18/09 00:42 | FMK | 9100877 | SW 8260B | |
| Trichloroethene | <1.00 | | ug/L | 1.00 | 1 | 10/18/09 00:42 | FMK | 9100877 | SW 8260B | |
| Vinyl chloride | <1.00 | | ug/L | 1.00 | 1 | 10/18/09 00:42 | FMK | 9100877 | SW 8260B | |
| Xylenes, total | <4.00 | | ug/L | 4.00 | 1 | 10/18/09 00:42 | FMK | 9100877 | SW 8260B | |
| Surr: Dibromo/methylmethane (80-120%) | 88 % | | | | | | | | | |
| Surr: Toluene-d8 (80-110%) | 95 % | | | | | | | | | |
| Surr: 4-Bromo/methylbenzene (65-115%) | 96 % | | | | | | | | | |
| VOC Preservation Check | | | | | | | | | | |
| pH | <2.00 | | units | 2.00 | 1 | 10/20/09 15:21 | am | 9100855 | SW | |
| 1,4-DIOXANE BY GCMS - SINGLE ION MONITORING (SIM) | | | | | | | | | | |
| 1,4-Dioxane | <2.0 | | ug/l | 2.0 | 1 | 10/21/09 12:23 | GMK | 9J21019 | EPA 8260B-SIM | |
| Surr: Dibromo/methylmethane (80-120%) | 115 % | | | | | | | | | |

FEHR-GRAHAM & ASSOCIATES - FREEPORT
 221 E. Main Street, Ste. 200
 Freeport, IL 61032
 Joel Zirkle

Work Order: CSJ0896
 Project: Sauer Danfoss
 Project Number: [none]

Received: 10/15/09
 Reported: 10/29/09 16:18

ANALYTICAL REPORT

| Analyte | Sample Result | Data Qualifiers | Units | MDL | MRL | Dilution Factor | Date Analyzed | Analyst | Seq/Batch | Method |
|-----------------------------------------------------------|---------------|-----------------|-------|-----|------|-----------------|----------------|---------|-----------|---------------|
| Sample ID: CSJ0896-07 (26613-EB-02 - Ground Water) | | | | | | | | | | |
| Sampled By: Mike Day | | | | | | | | | | |
| Sampled: 10/15/09 14:35 Recvd: 10/15/09 19:00 | | | | | | | | | | |
| Phone (815) 235-7643 | | | | | | | | | | |
| Volatile Organic Compounds | | | | | | | | | | |
| Acetone | <10.0 | | ug/L | | 10.0 | 1 | 10/18/09 01:08 | FMK | 9100877 | SW 8260B |
| 1,1-Dichloroethane | <1.00 | | ug/L | | 1.00 | 1 | 10/18/09 01:08 | FMK | 9100877 | SW 8260B |
| 1,2-Dichloroethane | <1.00 | | ug/L | | 1.00 | 1 | 10/18/09 01:08 | FMK | 9100877 | SW 8260B |
| 1,1-Dichloroethene | <2.00 | | ug/L | | 2.00 | 1 | 10/18/09 01:08 | FMK | 9100877 | SW 8260B |
| cis-1,2-Dichloroethene | <1.00 | | ug/L | | 1.00 | 1 | 10/18/09 01:08 | FMK | 9100877 | SW 8260B |
| trans-1,2-Dichloroethene | <1.00 | | ug/L | | 1.00 | 1 | 10/18/09 01:08 | FMK | 9100877 | SW 8260B |
| Methylene Chloride | <5.00 | | ug/L | | 5.00 | 1 | 10/18/09 01:08 | FMK | 9100877 | SW 8260B |
| Tetrachloroethene | <1.00 | | ug/L | | 1.00 | 1 | 10/18/09 01:08 | FMK | 9100877 | SW 8260B |
| 1,1,1-Trichloroethane | <1.00 | | ug/L | | 1.00 | 1 | 10/18/09 01:08 | FMK | 9100877 | SW 8260B |
| 1,1,2-Trichloroethane | <1.00 | | ug/L | | 1.00 | 1 | 10/18/09 01:08 | FMK | 9100877 | SW 8260B |
| Trichloroethene | <1.00 | | ug/L | | 1.00 | 1 | 10/18/09 01:08 | FMK | 9100877 | SW 8260B |
| Vinyl chloride | <1.00 | | ug/L | | 1.00 | 1 | 10/18/09 01:08 | FMK | 9100877 | SW 8260B |
| Xylenes, total | <4.00 | | ug/L | | 4.00 | 1 | 10/18/09 01:08 | FMK | 9100877 | SW 8260B |
| Surr: Dibromoformmethane (80-120%) | 91 % | | | | | | | | | |
| Surr: Toluene-d8 (80-110%) | 95 % | | | | | | | | | |
| Surr: 4-Bromofluorobenzene (65-115%) | 96 % | | | | | | | | | |
| VOC Preservation Check | | | | | | | | | | |
| pH | <2.00 | | units | | 2.00 | 1 | 10/20/09 15:21 | am | 9100855 | SW |
| 1,4-DIOXANE BY GCMS - SINGLE ION MONITORING (SIM) | | | | | | | | | | |
| 1,4-Dioxane | <2.0 | | ug/l | | 2.0 | 1 | 10/21/09 12:55 | GMK | 9J21019 | EPA 8260B-SIM |
| Surr: Dibromoformmethane (80-120%) | | | | | | | | | | |

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 221 E. Main Street, Ste. 200
 Freeport, IL 61032
 Joel Zirkle

Work Order: CSJ0896
 Project: Sauer Danfoss
 Project Number: [none]

Received: 10/15/09
 Reported: 10/29/09 16:18

ANALYTICAL REPORT

| Analyte | Sample Result | Data Qualifiers | Units | MDL | MRL | Dilution Factor | Date Analyzed | Analyst | Seq/Batch | Method |
|---------------------------------------------------------|---------------|-----------------|-------|------|-----|-----------------|---------------|---------|---------------|--------|
| Sample ID: CSJ0896-08 (26615-D01 - Ground Water) | | | | | | | | | | |
| Sampled By: Mike Day | | | | | | | | | | |
| Sampled: 10/15/09 Phone (815) 235-7643 | | | | | | | | | | |
| Volatile Organic Compounds | | | | | | | | | | |
| Acetone | <10.0 | | ug/L | 10.0 | 1 | 10/18/09 01:34 | FMK | 9100877 | SW 8260B | |
| 1,1-Dichloroethane | 1.56 | | ug/L | 1.00 | 1 | 10/18/09 01:34 | FMK | 9100877 | SW 8260B | |
| 1,2-Dichloroethane | <1.00 | | ug/L | 1.00 | 1 | 10/18/09 01:34 | FMK | 9100877 | SW 8260B | |
| 1,1-Dichloroethene | 2.20 | | ug/L | 2.00 | 1 | 10/18/09 01:34 | FMK | 9100877 | SW 8260B | |
| cis-1,2-Dichloroethene | 3.72 | | ug/L | 1.00 | 1 | 10/18/09 01:34 | FMK | 9100877 | SW 8260B | |
| trans-1,2-Dichloroethene | <1.00 | | ug/L | 1.00 | 1 | 10/18/09 01:34 | FMK | 9100877 | SW 8260B | |
| Methylene Chloride | <5.00 | | ug/L | 5.00 | 1 | 10/18/09 01:34 | FMK | 9100877 | SW 8260B | |
| Tetrachloroethene | 38.2 | | ug/L | 1.00 | 1 | 10/18/09 01:34 | FMK | 9100877 | SW 8260B | |
| 1,1,1-Trichloroethane | 6.71 | | ug/L | 1.00 | 1 | 10/18/09 01:34 | FMK | 9100877 | SW 8260B | |
| 1,1,2-Trichloroethane | <1.00 | | ug/L | 1.00 | 1 | 10/18/09 01:34 | FMK | 9100877 | SW 8260B | |
| Trichloroethene | 4.06 | | ug/L | 1.00 | 1 | 10/18/09 01:34 | FMK | 9100877 | SW 8260B | |
| Vinyl chloride | <1.00 | | ug/L | 1.00 | 1 | 10/18/09 01:34 | FMK | 9100877 | SW 8260B | |
| Xylenes, total | <4.00 | | ug/L | 4.00 | 1 | 10/18/09 01:34 | FMK | 9100877 | SW 8260B | |
| Surr: Dibromoformmethane (80-120%) | 93 % | | | | | | | | | |
| Surr: Toluene-d8 (80-110%) | 95 % | | | | | | | | | |
| Surr: 4-Bromofluorobenzene (65-115%) | 96 % | | | | | | | | | |
| VOC Preservation Check | | | | | | | | | | |
| pH | <2.00 | | units | 2.00 | 1 | 10/20/09 15:21 | am | 9100855 | SW | |
| 1,4-DIOXANE BY GCMS - SINGLE ION MONITORING (SIM) | | | | | | | | | | |
| 1,4-Dioxane | 3.1 | | ug/l | 2.0 | 1 | 10/21/09 16:50 | GMK | 9J21020 | EPA 8260B-SIM | |
| Surr: Dibromoformmethane (80-120%) | 120 % | | | | | | | | | |

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221 E. Main Street, Ste. 200
Freeport, IL 61032
Joel Zirkle

Work Order: CSJ0896

Received: 10/15/09
Reported: 10/29/09 16:18

Project: Sauer Danfoss
Project Number: [none]

SAMPLE EXTRACTION DATA

| Parameter | Batch | Lab Number | Wt/Vol Extracted | Extracted Vol | Date | Analyst | Extraction Method |
|-------------------------------------------|---------|------------|---------------------|---------------|----------------|---------|----------------------|
| Dissolved Metals by SW 846 Series Methods | | | | | | | |
| SW 6010B | 9100999 | CSJ0896-05 | 50 | 50 | 10/21/09 00:00 | CJT | SW 3010A |

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 Joel Zirkle

Work Order: CSJ0896
 Project: Sauer Danfoss
 Project Number: [none]

Received: 10/15/09
 Reported: 10/29/09 16:18

LABORATORY BLANK QC DATA

| Analyte | Seq/ Batch | Source Result | Spike Level | Units | MDL | MRL | Result | Dup Result | % REC | Dup %REC | % REC Limits | RPD | RPD Limit | Q |
|--------------------------------------------------|---------------|------------------|----------------|-------|-----|--------|---------|---------------|----------|-------------|-----------------|--------|--------------|---|
| General Chemistry Parameters | | | | | | | | | | | | | | |
| Nitrate as N | 9100751 | | | mg/L | N/A | 0.10 | <0.10 | | | | | | | |
| Chemical Oxygen Demand | 9101042 | | | mg/L | N/A | 5.00 | <5.00 | | | | | | | |
| Dissolved Metals by SW 846 Series Methods | | | | | | | | | | | | | | |
| Iron | 9100999 | | | mg/L | N/A | 0.100 | <0.100 | | | | | | | |
| Manganese | 9100999 | | | mg/L | N/A | 0.0100 | <0.0100 | | | | | | | |
| Volatile Organic Compounds | | | | | | | | | | | | | | |
| Acetone | 9100863 | | | ug/L | N/A | 10.0 | <10.0 | | | | | | | |
| 1,1-Dichloroethane | 9100863 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| 1,2-Dichloroethane | 9100863 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| 1,1-Dichloroethene | 9100863 | | | ug/L | N/A | 2.00 | <2.00 | | | | | | | |
| cis-1,2-Dichloroethene | 9100863 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| trans-1,2-Dichloroethene | 9100863 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| Methylene Chloride | 9100863 | | | ug/L | N/A | 5.00 | <5.00 | | | | | | | |
| Tetrachloroethene | 9100863 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| 1,1,1-Trichloroethane | 9100863 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| 1,1,2-Trichloroethane | 9100863 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| Trichloroethene | 9100863 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| Vinyl chloride | 9100863 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| Xylenes, total | 9100863 | | | ug/L | N/A | 4.00 | <4.00 | | | | | | | |
| Surrogate: Dibromoformmethane | 9100863 | | | ug/L | | | | 113 | | | | 80-120 | | |
| Surrogate: Toluene-d8 | 9100863 | | | ug/L | | | | 101 | | | | 80-110 | | |
| Surrogate: 4-Bromofluorobenzene | 9100863 | | | ug/L | | | | 89 | | | | 65-115 | | |
| Acetone | 9100870 | | | ug/L | N/A | 10.0 | <10.0 | | | | | | | |
| 1,1-Dichloroethane | 9100870 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| 1,2-Dichloroethane | 9100870 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| 1,1-Dichloroethene | 9100870 | | | ug/L | N/A | 2.00 | <2.00 | | | | | | | |
| cis-1,2-Dichloroethene | 9100870 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| trans-1,2-Dichloroethene | 9100870 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| Methylene Chloride | 9100870 | | | ug/L | N/A | 5.00 | <5.00 | | | | | | | |
| Tetrachloroethene | 9100870 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| 1,1,1-Trichloroethane | 9100870 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| 1,1,2-Trichloroethane | 9100870 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| Trichloroethene | 9100870 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| Vinyl chloride | 9100870 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| Xylenes, total | 9100870 | | | ug/L | N/A | 4.00 | <4.00 | | | | | | | |
| Surrogate: Dibromoformmethane | 9100870 | | | ug/L | | | | 95 | | | | 80-120 | | |
| Surrogate: Toluene-d8 | 9100870 | | | ug/L | | | | 96 | | | | 80-110 | | |
| Surrogate: 4-Bromofluorobenzene | 9100870 | | | ug/L | | | | 96 | | | | 65-115 | | |

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 Freeport, IL 61032
 Joel Zirkle

Work Order: CSJ0896

 Received: 10/15/09
 Reported: 10/29/09 16:18

 Project: Sauer Danfoss
 Project Number: [none]

LABORATORY BLANK QC DATA

| Analyte | Seq/ Batch | Source Result | Spike Level | Units | MDL | MRL | Result | Dup Result | % REC | Dup %REC | % REC Limits | RPD | RPD Limit | Q |
|----------------------------------------------------------|---------------|------------------|----------------|-------|-----|------|--------|---------------|----------|-------------|-----------------|-----|--------------|---|
| Volatile Organic Compounds | | | | | | | | | | | | | | |
| Acetone | 9100877 | | | ug/L | N/A | 10.0 | <10.0 | | | | | | | |
| 1,1-Dichloroethane | 9100877 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| 1,2-Dichloroethane | 9100877 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| 1,1-Dichloroethene | 9100877 | | | ug/L | N/A | 2.00 | <2.00 | | | | | | | |
| cis-1,2-Dichloroethene | 9100877 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| trans-1,2-Dichloroethene | 9100877 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| Methylene Chloride | 9100877 | | | ug/L | N/A | 5.00 | <5.00 | | | | | | | |
| Tetrachloroethene | 9100877 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| 1,1,1-Trichloroethane | 9100877 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| 1,1,2-Trichloroethane | 9100877 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| Trichloroethene | 9100877 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| Vinyl chloride | 9100877 | | | ug/L | N/A | 1.00 | <1.00 | | | | | | | |
| Xylenes, total | 9100877 | | | ug/L | N/A | 4.00 | <4.00 | | | | | | | |
| Surrogate: Dibromoformmethane | 9100877 | | | ug/L | | | | 91 | | | 80-120 | | | |
| Surrogate: Toluene-d8 | 9100877 | | | ug/L | | | | 95 | | | 80-110 | | | |
| Surrogate: 4-Bromoformbenzene | 9100877 | | | ug/L | | | | 99 | | | 65-115 | | | |
| 1,4-DIOXANE BY GCMS - SINGLE ION MONITORING (SIM) | | | | | | | | | | | | | | |
| 1,4-Dioxane | 9J21019 | | | ug/l | N/A | 2.0 | <2.0 | | | | | | | |
| Surrogate: Dibromoformmethane | 9J21019 | | | ug/l | | | | 109 | | | 80-120 | | | |
| 1,4-Dioxane | 9J21020 | | | ug/l | N/A | 2.0 | <2.0 | | | | | | | |
| Surrogate: Dibromoformmethane | 9J21020 | | | ug/l | | | | 97 | | | 80-120 | | | |

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Work Order: CSJ0896

Received: 10/15/09

Reported: 10/29/09 16:18

Project: Sauer Danfoss

Project Number: [none]

LABORATORY DUPLICATE QC DATA

| Analyte | Seq/ Batch | Source Result | Spike Level | Units | MDL | MRL | Result | % REC | Dup %REC | % REC Limits | RPD | RPD Limit | Q |
|--------------------------------------------------|---------------|------------------|----------------|-------|-----|--------|--------|----------|-------------|-----------------|-----|--------------|---|
| Dissolved Metals by SW 846 Series Methods | | | | | | | | | | | | | |
| QC Source Sample: CSJ0737-01 | | | | | | | | | | | | | |
| Iron | 9100999 | 0.0225 | | mg/L | N/A | 0.100 | 0.0196 | | | | 14 | 15 | |
| Manganese | 9100999 | 0.0877 | | mg/L | N/A | 0.0100 | 0.0867 | | | | 1 | 15 | |
| QC Source Sample: CSJ0838-02 | | | | | | | | | | | | | |
| Iron | 9100999 | 0.107 | | mg/L | N/A | 0.100 | 0.104 | | | | 2 | 15 | |
| Manganese | 9100999 | 0.203 | | mg/L | N/A | 0.0100 | 0.205 | | | | 1 | 15 | |

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Work Order: CSJ0896

 Received: 10/15/09
 Reported: 10/29/09 16:18

 Project: Sauer Danfoss
 Project Number: [none]

LCS/LCS DUPLICATE QC DATA

| Analyte | Seq/ Batch | Source Result | Spike Level | Units | MDL | MRL | Result | Dup Result | % REC | Dup %REC | % REC Limits | RPD Limit | Q |
|--------------------------------------------------|---------------|------------------|----------------|-------|-----|------|--------|---------------|----------|-------------|-----------------|--------------|---|
| General Chemistry Parameters | | | | | | | | | | | | | |
| Nitrate as N | 9100751 | | 14.8 | mg/L | N/A | 2.50 | 14.3 | 97 | | | 90-110 | | |
| Chemical Oxygen Demand | 9101042 | | 251 | mg/L | N/A | 10.0 | 255 | 102 | | | 90-110 | | |
| Dissolved Metals by SW 846 Series Methods | | | | | | | | | | | | | |
| Iron | 9100999 | | 2.00 | ug/mL | N/A | N/A | 1.99 | 100 | | | 85-115 | | |
| Manganese | 9100999 | | 2.00 | ug/mL | N/A | N/A | 1.97 | 98 | | | 85-110 | | |
| Volatile Organic Compounds | | | | | | | | | | | | | |
| Acetone | 9100863 | | 20.0 | ug/L | N/A | N/A | 17.1 | 86 | | | 50-145 | | |
| 1,1-Dichloroethane | 9100863 | | 20.0 | ug/L | N/A | N/A | 17.6 | 88 | | | 65-145 | | |
| 1,2-Dichloroethane | 9100863 | | 20.0 | ug/L | N/A | N/A | 18.2 | 91 | | | 80-140 | | |
| 1,1-Dichloroethene | 9100863 | | 20.0 | ug/L | N/A | N/A | 17.6 | 88 | | | 65-150 | | |
| cis-1,2-Dichloroethene | 9100863 | | 20.0 | ug/L | N/A | N/A | 18.0 | 90 | | | 65-150 | | |
| trans-1,2-Dichloroethene | 9100863 | | 20.0 | ug/L | N/A | N/A | 18.6 | 93 | | | 70-150 | | |
| Methylene Chloride | 9100863 | | 20.0 | ug/L | N/A | N/A | 19.4 | 97 | | | 70-150 | | |
| Tetrachloroethene | 9100863 | | 20.0 | ug/L | N/A | N/A | 18.4 | 92 | | | 75-125 | | |
| 1,1,1-Trichloroethane | 9100863 | | 20.0 | ug/L | N/A | N/A | 16.6 | 83 | | | 70-130 | | |
| 1,1,2-Trichloroethane | 9100863 | | 20.0 | ug/L | N/A | N/A | 19.3 | 96 | | | 75-140 | | |
| Trichloroethene | 9100863 | | 20.0 | ug/L | N/A | N/A | 17.9 | 90 | | | 80-130 | | |
| Vinyl chloride | 9100863 | | 20.0 | ug/L | N/A | N/A | 18.8 | 94 | | | 55-150 | | |
| Xylenes, total | 9100863 | | 60.0 | ug/L | N/A | N/A | 54.9 | 91 | | | 80-130 | | |
| Surrogate: Dibromoformmethane | 9100863 | | | ug/L | | | | 96 | | | 80-120 | | |
| Surrogate: Toluene-d8 | 9100863 | | | ug/L | | | | 99 | | | 80-110 | | |
| Surrogate: 4-Bromoformbenzene | 9100863 | | | ug/L | | | | 102 | | | 70-115 | | |
| Acetone | 9100870 | | 20.0 | ug/L | N/A | N/A | 18.0 | 90 | | | 50-145 | | |
| 1,1-Dichloroethane | 9100870 | | 20.0 | ug/L | N/A | N/A | 16.0 | 80 | | | 65-145 | | |
| 1,2-Dichloroethane | 9100870 | | 20.0 | ug/L | N/A | N/A | 16.4 | 82 | | | 80-140 | | |
| 1,1-Dichloroethene | 9100870 | | 20.0 | ug/L | N/A | N/A | 16.1 | 81 | | | 65-150 | | |
| cis-1,2-Dichloroethene | 9100870 | | 20.0 | ug/L | N/A | N/A | 16.4 | 82 | | | 65-150 | | |
| trans-1,2-Dichloroethene | 9100870 | | 20.0 | ug/L | N/A | N/A | 17.0 | 85 | | | 70-150 | | |
| Methylene Chloride | 9100870 | | 20.0 | ug/L | N/A | N/A | 18.9 | 94 | | | 70-150 | | |
| Tetrachloroethene | 9100870 | | 20.0 | ug/L | N/A | N/A | 17.0 | 85 | | | 75-125 | | |
| 1,1,1-Trichloroethane | 9100870 | | 20.0 | ug/L | N/A | N/A | 16.0 | 80 | | | 70-130 | | |
| 1,1,2-Trichloroethane | 9100870 | | 20.0 | ug/L | N/A | N/A | 18.7 | 94 | | | 75-140 | | |
| Trichloroethene | 9100870 | | 20.0 | ug/L | N/A | N/A | 17.2 | 86 | | | 80-130 | | |
| Vinyl chloride | 9100870 | | 20.0 | ug/L | N/A | N/A | 17.4 | 87 | | | 55-150 | | |
| Xylenes, total | 9100870 | | 60.0 | ug/L | N/A | N/A | 52.6 | 88 | | | 80-130 | | |
| Surrogate: Dibromoformmethane | 9100870 | | | ug/L | | | | 90 | | | 80-120 | | |
| Surrogate: Toluene-d8 | 9100870 | | | ug/L | | | | 96 | | | 80-110 | | |
| Surrogate: 4-Bromoformbenzene | 9100870 | | | ug/L | | | | 100 | | | 70-115 | | |

FEHR-GRAHAM & ASSOCIATES - FREEPORT
221 E. Main Street, Ste. 200
Freeport, IL 61032
Joel Zirkle

Work Order: CSJ0896

Received: 10/15/09
Reported: 10/29/09 16:18

Project: Sauer Danfoss
Project Number: [none]

LCS/LCS DUPLICATE QC DATA

| Analyte | Seq/ Batch | Source Result | Spike Level | Units | MDL | MRL | Dup Result | % REC | Dup %REC | % REC Limits | RPD Limit | Q |
|----------------------------------------------------------|---------------|------------------|----------------|-------|-----|-----|---------------|----------|-------------|-----------------|--------------|---|
| Volatile Organic Compounds | | | | | | | | | | | | |
| Acetone | 9100877 | | 20.0 | ug/L | N/A | N/A | 18.9 | 95 | | 50-145 | | |
| 1,1-Dichloroethane | 9100877 | | 20.0 | ug/L | N/A | N/A | 17.1 | 85 | | 65-145 | | |
| 1,2-Dichloroethane | 9100877 | | 20.0 | ug/L | N/A | N/A | 16.8 | 84 | | 80-140 | | |
| 1,1-Dichloroethene | 9100877 | | 20.0 | ug/L | N/A | N/A | 20.3 | 102 | | 65-150 | | |
| cis-1,2-Dichloroethene | 9100877 | | 20.0 | ug/L | N/A | N/A | 17.2 | 86 | | 65-150 | | |
| trans-1,2-Dichloroethene | 9100877 | | 20.0 | ug/L | N/A | N/A | 18.6 | 93 | | 70-150 | | |
| Methylene Chloride | 9100877 | | 20.0 | ug/L | N/A | N/A | 19.1 | 95 | | 70-150 | | |
| Tetrachloroethene | 9100877 | | 20.0 | ug/L | N/A | N/A | 18.0 | 90 | | 75-125 | | |
| 1,1,1-Trichloroethane | 9100877 | | 20.0 | ug/L | N/A | N/A | 17.9 | 90 | | 70-130 | | |
| 1,1,2-Trichloroethane | 9100877 | | 20.0 | ug/L | N/A | N/A | 18.0 | 90 | | 75-140 | | |
| Trichloroethene | 9100877 | | 20.0 | ug/L | N/A | N/A | 18.9 | 95 | | 80-130 | | |
| Vinyl chloride | 9100877 | | 20.0 | ug/L | N/A | N/A | 18.9 | 94 | | 55-150 | | |
| Xylenes, total | 9100877 | | 60.0 | ug/L | N/A | N/A | 55.2 | 92 | | 80-130 | | |
| Surrogate: Dibromoformmethane | 9100877 | | | ug/L | | | | 92 | | 80-120 | | |
| Surrogate: Toluene-d8 | 9100877 | | | ug/L | | | | 96 | | 80-110 | | |
| Surrogate: 4-Bromofluorobenzene | 9100877 | | | ug/L | | | | 99 | | 70-115 | | |
| 1,4-DIOXANE BY GCMS - SINGLE ION MONITORING (SIM) | | | | | | | | | | | | |
| 1,4-Dioxane | 9J21019 | | 10.0 | ug/l | N/A | 2.0 | 11.2 | 112 | | 70-125 | | |
| Surrogate: Dibromoformmethane | 9J21019 | | | ug/l | | | | 108 | | 80-120 | | |
| 1,4-Dioxane | 9J21020 | | 10.0 | ug/l | N/A | 2.0 | 10.5 | 105 | | 70-125 | | |
| Surrogate: Dibromoformmethane | 9J21020 | | | ug/l | | | | 97 | | 80-120 | | |

FEHR-GRAHAM & ASSOCIATES - FREEPORT
 221 E. Main Street, Ste. 200
 Freeport, IL 61032
 Joel Zirkle

Work Order: CSJ0896

Received: 10/15/09

 Project: Sauer Danfoss
 Project Number: [none]

Reported: 10/29/09 16:18

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC DATA

| Analyte | Seq/ Batch | Source Result | Spike Level | Units | MDL | MRL | Dup Result | % REC | Dup %REC | % REC Limits | RPD | RPD Limit | Q |
|-------------------------------------|---------------|------------------|----------------|-------|-----|------|---------------|----------|-------------|-----------------|--------|--------------|----|
| General Chemistry Parameters | | | | | | | | | | | | | |
| QC Source Sample: CSJ0896-05 | | | | | | | | | | | | | |
| Nitrate as N | 9100751 | 3.17 | 2.50 | mg/L | N/A | 0.10 | 5.67 | 5.80 | 100 | 105 | 75-125 | 2 | 20 |
| Chemical Oxygen Demand | 9101042 | 5.70 | 50.0 | mg/L | N/A | 5.00 | 56.8 | 56.6 | 102 | 102 | 75-125 | 0 | 20 |
| Volatile Organic Compounds | | | | | | | | | | | | | |
| QC Source Sample: CSJ0896-01 | | | | | | | | | | | | | |
| Acetone | 9100863 | 0.320 | 20.0 | ug/L | N/A | N/A | 19.0 | 16.3 | 94 | 80 | 50-150 | 15 | 35 |
| 1,1-Dichloroethane | 9100863 | 0.610 | 20.0 | ug/L | N/A | N/A | 17.9 | 21.1 | 86 | 103 | 55-145 | 17 | 20 |
| 1,2-Dichloroethane | 9100863 | <1.00 | 20.0 | ug/L | N/A | N/A | 18.1 | 20.3 | 91 | 102 | 70-140 | 11 | 15 |
| 1,1-Dichloroethene | 9100863 | 0.850 | 20.0 | ug/L | N/A | N/A | 20.4 | 19.7 | 98 | 94 | 50-150 | 3 | 20 |
| cis-1,2-Dichloroethene | 9100863 | 0.810 | 20.0 | ug/L | N/A | N/A | 18.4 | 20.6 | 88 | 99 | 50-150 | 12 | 20 |
| trans-1,2-Dichloroethene | 9100863 | 0.0500 | 20.0 | ug/L | N/A | N/A | 18.7 | 21.4 | 93 | 107 | 55-150 | 13 | 25 |
| Methylene Chloride | 9100863 | 0.0500 | 20.0 | ug/L | N/A | N/A | 20.2 | 19.5 | 101 | 97 | 55-150 | 4 | 20 |
| Tetrachloroethene | 9100863 | 63.6 | 20.0 | ug/L | N/A | N/A | 82.1 | 83.2 | 92 | 98 | 45-140 | 1 | 15 |
| 1,1,1-Trichloroethane | 9100863 | 3.07 | 20.0 | ug/L | N/A | N/A | 20.1 | 20.5 | 85 | 87 | 60-130 | 2 | 15 |
| 1,1,2-Trichloroethane | 9100863 | 0.340 | 20.0 | ug/L | N/A | N/A | 20.4 | 19.9 | 100 | 98 | 70-140 | 2 | 10 |
| Trichloroethene | 9100863 | 37.6 | 20.0 | ug/L | N/A | N/A | 49.7 | 48.1 | 61 | 53 | 55-135 | 3 | 15 |
| Vinyl chloride | 9100863 | <1.00 | 20.0 | ug/L | N/A | N/A | 19.4 | 20.1 | 97 | 101 | 45-150 | 4 | 20 |
| Xylenes, total | 9100863 | <3.00 | 60.0 | ug/L | N/A | N/A | 56.3 | 54.7 | 94 | 91 | 55-140 | 3 | 15 |
| Surrogate: Dibromoformmethane | 9100863 | | | ug/L | | | | | 94 | 105 | 80-120 | | |
| Surrogate: Toluene-d8 | 9100863 | | | ug/L | | | | | 94 | 101 | 80-110 | | |
| Surrogate: 4-Bromoformbenzene | 9100863 | | | ug/L | | | | | 100 | 98 | 70-115 | | |
| QC Source Sample: CSJ0896-02 | | | | | | | | | | | | | |
| Acetone | 9100870 | 2.05 | 20.0 | ug/L | N/A | N/A | 20.4 | 18.4 | 92 | 82 | 50-150 | 10 | 35 |
| 1,1-Dichloroethane | 9100870 | 0.0800 | 20.0 | ug/L | N/A | N/A | 17.9 | 16.8 | 89 | 84 | 55-145 | 6 | 20 |
| 1,2-Dichloroethane | 9100870 | <1.00 | 20.0 | ug/L | N/A | N/A | 18.0 | 17.3 | 90 | 86 | 70-140 | 4 | 15 |
| 1,1-Dichloroethene | 9100870 | 0.0400 | 20.0 | ug/L | N/A | N/A | 20.9 | 15.8 | 104 | 79 | 50-150 | 28 | 20 |
| cis-1,2-Dichloroethene | 9100870 | 0.290 | 20.0 | ug/L | N/A | N/A | 18.6 | 17.1 | 91 | 84 | 50-150 | 8 | 20 |
| trans-1,2-Dichloroethene | 9100870 | <1.00 | 20.0 | ug/L | N/A | N/A | 18.6 | 17.1 | 91 | 84 | 50-150 | 8 | 20 |
| Methylene Chloride | 9100870 | <5.00 | 20.0 | ug/L | N/A | N/A | 19.5 | 17.7 | 98 | 88 | 55-150 | 10 | 25 |
| Tetrachloroethene | 9100870 | 5.72 | 20.0 | ug/L | N/A | N/A | 20.5 | 19.6 | 102 | 98 | 55-150 | 4 | 20 |
| 1,1,1-Trichloroethane | 9100870 | 0.410 | 20.0 | ug/L | N/A | N/A | 23.0 | 21.9 | 87 | 81 | 45-140 | 5 | 15 |
| 1,1,2-Trichloroethane | 9100870 | 0.0700 | 20.0 | ug/L | N/A | N/A | 18.0 | 16.7 | 88 | 81 | 60-130 | 7 | 15 |
| Trichloroethene | 9100870 | 0.310 | 20.0 | ug/L | N/A | N/A | 19.7 | 19.3 | 98 | 96 | 70-140 | 2 | 10 |
| Vinyl chloride | 9100870 | <1.00 | 20.0 | ug/L | N/A | N/A | 19.7 | 18.1 | 97 | 89 | 55-135 | 8 | 15 |
| Xylenes, total | 9100870 | <1.00 | 60.0 | ug/L | N/A | N/A | 19.2 | 17.7 | 96 | 89 | 45-150 | 8 | 20 |
| Surrogate: Dibromoformmethane | 9100870 | | | ug/L | | | | | 93 | 89 | 80-120 | | |
| Surrogate: Toluene-d8 | 9100870 | | | ug/L | | | | | 95 | 96 | 80-110 | | |
| Surrogate: 4-Bromoformbenzene | 9100870 | | | ug/L | | | | | 100 | 99 | 70-115 | | |
| QC Source Sample: CSJ0896-06 | | | | | | | | | | | | | |
| Acetone | 9100877 | 0.870 | 20.0 | ug/L | N/A | N/A | 18.2 | 21.4 | 87 | 103 | 50-150 | 16 | 35 |
| 1,1-Dichloroethane | 9100877 | <1.00 | 20.0 | ug/L | N/A | N/A | 17.9 | 17.0 | 90 | 85 | 55-145 | 5 | 20 |
| 1,2-Dichloroethane | 9100877 | <1.00 | 20.0 | ug/L | N/A | N/A | 18.8 | 18.2 | 94 | 91 | 70-140 | 3 | 15 |
| 1,1-Dichloroethene | 9100877 | <2.00 | 20.0 | ug/L | N/A | N/A | 17.8 | 19.4 | 89 | 97 | 50-150 | 8 | 20 |
| cis-1,2-Dichloroethene | 9100877 | <1.00 | 20.0 | ug/L | N/A | N/A | 18.9 | 17.8 | 95 | 89 | 50-150 | 6 | 20 |
| trans-1,2-Dichloroethene | 9100877 | <1.00 | 20.0 | ug/L | N/A | N/A | 19.7 | 18.2 | 99 | 91 | 55-150 | 8 | 25 |

FEHR-GRAHAM & ASSOCIATES - FREEPORT
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 Joel Zirkle

Work Order: CSJ0896

 Received: 10/15/09
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 Project: Sauer Danfoss
 Project Number: [none]

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC DATA

| Analyte | Seq/ Batch | Source Result | Spike Level | Units | MDL | MRL | Result | Dup Result | % REC | Dup %REC | % REC Limits | RPD | RPD Limit | Q |
|----------------------------------------------------------|---------------|------------------|----------------|-------|-----|-----|--------|---------------|----------|-------------|-----------------|-----|--------------|---|
| Volatile Organic Compounds | | | | | | | | | | | | | | |
| QC Source Sample: CSJ0896-06 | | | | | | | | | | | | | | |
| Methylene Chloride | 9100877 | 0.120 | 20.0 | ug/L | N/A | N/A | 21.8 | 20.1 | 108 | 100 | 55-150 | 8 | 20 | |
| Tetrachloroethene | 9100877 | <1.00 | 20.0 | ug/L | N/A | N/A | 19.1 | 17.3 | 96 | 87 | 45-140 | 10 | 15 | |
| 1,1,1-Trichloroethane | 9100877 | <1.00 | 20.0 | ug/L | N/A | N/A | 18.1 | 17.1 | 90 | 85 | 60-130 | 6 | 15 | |
| 1,1,2-Trichloroethane | 9100877 | 0.0200 | 20.0 | ug/L | N/A | N/A | 20.8 | 20.0 | 104 | 100 | 70-140 | 4 | 10 | |
| Trichloroethene | 9100877 | <1.00 | 20.0 | ug/L | N/A | N/A | 19.6 | 18.6 | 98 | 93 | 55-135 | 5 | 15 | |
| Vinyl chloride | 9100877 | <1.00 | 20.0 | ug/L | N/A | N/A | 19.3 | 17.7 | 97 | 88 | 45-150 | 9 | 20 | |
| Xylenes, total | 9100877 | 0.0800 | 60.0 | ug/L | N/A | N/A | 57.7 | 55.6 | 96 | 93 | 55-140 | 4 | 15 | |
| Surrogate: Dibromoformmethane | 9100877 | | | ug/L | | | | | 93 | 92 | 80-120 | | | |
| Surrogate: Toluene-d8 | 9100877 | | | ug/L | | | | | 97 | 95 | 80-110 | | | |
| Surrogate: 4-Bromofluorobenzene | 9100877 | | | ug/L | | | | | 99 | 98 | 70-115 | | | |
| 1,4-DIOXANE BY GCMS - SINGLE ION MONITORING (SIM) | | | | | | | | | | | | | | |
| QC Source Sample: CSJ0896-03 | | | | | | | | | | | | | | |
| 1,4-Dioxane | 9J21019 | <2.0 | 10.0 | ug/l | N/A | 2.0 | 11.5 | 11.1 | 115 | 111 | 70-130 | 4 | 30 | |
| Surrogate: Dibromoformmethane | 9J21019 | | | ug/l | | | | | 115 | 120 | 80-120 | | | |
| QC Source Sample: ISJ1511-05 | | | | | | | | | | | | | | |
| 1,4-Dioxane | 9J21020 | <2.0 | 10.0 | ug/l | N/A | 2.0 | 9.87 | 9.83 | 99 | 98 | 70-130 | 0 | 30 | |
| Surrogate: Dibromoformmethane | 9J21020 | | | ug/l | | | | | 104 | 105 | 80-120 | | | |

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

704 Enterprise Drive Cedar Falls, IA 50613 * 800-750-2401 * Fax 319-277-2425

FEHR-GRAHAM & ASSOCIATES - FREEPORT
221 E. Main Street, Ste. 200
Freeport, IL 61032
Joel Zirkle

Work Order: CSJ0896

Received: 10/15/09
Reported: 10/29/09 16:18

Project: Sauer Danfoss
Project Number: [none]

OTHER

| Analyte | Seq/ Batch | Source Result | Spike Level | Units | MDL | MRL | Dup Result | % REC | Dup %REC | % REC Limits | RPD | RPD Limit | Q |
|-------------------------------------------|---------------|------------------|----------------|-------|-----|-----|---------------|----------|-------------|-----------------|-----|--------------|---|
| Dissolved Metals by SW 846 Series Methods | | | | | | | | | | | | | |
| QC Source Sample: CSJ0838-03 | | | | | | | | | | | | | |
| Iron | 9100999 | 0.181 | 1.92 | ug/mL | N/A | N/A | 2.17 | 104 | | 75-125 | | | |
| Manganese | 9100999 | 0.0788 | 0.962 | ug/mL | N/A | N/A | 1.07 | 103 | | 80-120 | | | |
| QC Source Sample: CSJ0838-03 | | | | | | | | | | | | | |
| Iron | 9100999 | 0.181 | 1.92 | ug/mL | N/A | N/A | 2.12 | 101 | | 75-125 | | | |
| Manganese | 9100999 | 0.0788 | 0.962 | ug/mL | N/A | N/A | 1.05 | 101 | | 80-120 | | | |

TestAmerica

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FEHR-GRAHAM & ASSOCIATES - FREEPORT
221 E. Main Street, Ste. 200
Freeport, IL 61032
Joel Zirkle

Work Order: CSJ0896
Project: Sauer Danfoss
Project Number: [none]

Received: 10/15/09
Reported: 10/29/09 16:18

CERTIFICATION SUMMARY

TestAmerica Cedar Falls

| Method | Matrix | Nelac | Iowa |
|------------------|--------------------|-------|------|
| SM 4500 NO3 E/00 | Water - NonPotable | X | X |
| SM 5220 D | Water - NonPotable | X | X |
| SW 6010B | Water - NonPotable | X | X |
| SW 8260B | Water - NonPotable | X | X |
| SW | Water - NonPotable | | |

Subcontracted Laboratories

TestAmerica Irvine

17461 Derian Avenue, Suite 100 - Irvine, CA 92614

Method Performed: EPA 8260B-SIM

Samples: CSJ0896-03, CSJ0896-04, CSJ0896-05, CSJ0896-06, CSJ0896-07, CSJ0896-08

TestAmerica Analytical Testing Corp.- Nashville NELAC Cert #87358, Illinois Cert #001366, Iowa Cert #131, Kansas Cert #E-10229, Minnesota Cert #047-999-345, Wisconsin Cert #998020436

2960 Foster Creighton Dr. - Nashville, TN 37204

Analysis Performed: Sulfate (IC) SW 9056

Samples: CSJ0896-05

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) and are sampled in accordance with TA-CF SOP CF-FSS-01.

DATA QUALIFIERS AND DEFINITIONS

- M1 The MS and/or MSD were outside control limits.
R Sample duplicate RPD exceeded the laboratory control limit.

ADDITIONAL COMMENTS

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Cedar Falls Division
704 Enterprise Drive
Cedar Falls, IA 50613

Phone 319-277-2401 or 800-750-2401
Fax 319-277-2425

Client Name: Fehr-Graham & ASSOCIATES Client #: 09-233

Address: 221 E. MAIN ST.

City/State/Zip Code: FREEPORT, IL 61032

Project Manager: JOEL ZIRKLE @ fehr-graham.com

Email Address: JZirkle @ fehr-graham.com

Telephone Number: (815) 235-7643 Fax (815) 235-4632

Sampler Name: (Print Name) MIKE DAY

Sampler Signature: Mike Day

To assist us in using the proper analytical methods,
is this work being conducted for regulatory purposes?

Compliance Monitoring

YES

Project Name:

Project #:

Site/Location ID: State:

Report To:

Invoice To:

Quote #: PO#:

| TAT <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (surcharges may apply) | Date Sampled | Time Sampled | G = Grab, C = Composite | Field Filtered | Matrix | Preservation & # of Containers | | | | Analyze For: | | | | | | | | | | QC Deliverables None Level 2 (Batch QC) Level 3 Level 4 Other: _____ | | | | | | | | | |
|-------------------------------------------------------------------------------------------------------------|--------------|--------------|-------------------------|----------------|--------|--------------------------------|---------------------|----------------|------------------|-----------------|------------------|-----|------|--------------------------------|----------|------|-----------------|--------|------------------|----------------------------------------------------------------------------------------|------------------------------|--|--|--|--|--|--|--|--|
| | | | | | | SL - Sludge | DW - Drinking Water | S - Soil/Solid | GW - Groundwater | WW - Wastewater | HNO ₃ | HCl | NaOH | H ₂ SO ₄ | Methanol | None | Other (Specify) | List 1 | Method 026CB SIM | Sulfate, Nitrate, CO ₂ | Fe, Mn - (F/F ₂) | | | | | | | | |
| 26605 - MW-18 | 10/15/09 | 11:30 | G | | GW | 6 | | | | | | | | | | X | X | | | | | | | | | | | | |
| 26606 - MW-12 | | - | | | | 6 | | | | | | | | | | X | X | | | | | | | | | | | | |
| 26607 - MW-R30 | | 2:10 | | | | 3 | | | | | | | | | | X | | | | | | | | | | | | | |
| 26608 - MW-31 | | 11:30 | | | | 3 | | | | | | | | | | X | | | | | | | | | | | | | |
| 26609 - MW-33 | | 2:35 | | | | 18 | | | | | | | | | | X | X | | | | | | | | | | | | |
| 26610 - MW-19 | | 4:00 | | | | 6 | | | | | | | | | | X | X | | | | | | | | | | | | |
| 26611 - MW-20 | | 5:00 | I | | | 1 | 6 | 1 | 2 | | | | | | | X | X | X | X | | | | | | | | | | |
| 26612 - EB-01 | | 1:45 | | | | 6 | | | | | | | | | | X | X | | | | | | | | | | | | |
| 26613 - EB-02 | | 2:35 | | | | 6 | | | | | | | | | | X | X | | | | | | | | | | | | |
| 26614 - TB-01 | | 5:00 | ↓ | | | 6 | | | | | | | | | | X | X | | | | | | | | | | | | |

Special Instructions: THE EXTRA VIALS FROM MW-33 ARE FOR THE MATRIX SPIKE AND MATRIX SPIKE DUPLICATE

LABORATORY COMMENTS:

Trip Blank not read
10/16/09 SH

Relinquished By: Mike Day Date: 10/15/09 Time: 5:00 PM Received By: Mike Day Date: 10/15/09 Time: 1400

Relinquished By: Date: Time: Received By: Date: Time:

Relinquished By: Date: Time: Received By: Date: Time:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

**Cedar Falls Division
704 Enterprise Drive
Cedar Falls, IA 50613**

**Phone 319-277-2401 or 800-750-2401
Fax 319-277-2425**

To assist us in using the proper analytical methods,
is this work being conducted for regulatory purposes?

Client Name: FEAR-GRAHAM + ASSOCIATES

Client #: 09-233

Address: 221 E. MAIN ST.

City/State/Zip Code: FREEPORT, IL 61032

Project Manager: JOEL ZIRKLE

Email Address: Tjirkle@fehr-graham.com

Telephone Number: (815) 235-7643 Fax: (815) 235-4632

Sampler Name: (Print Name) MICHAEL DAY

Sampler Signature: John G. S.

Special Instructions:

LABORATORY COMMENTS:

| | | | | | |
|---------------------------------|-----------------------|----------------------|---------------------------------|-----------------------|-------------------|
| Relinquished By: <i>Mike Oy</i> | Date: <i>10/15/09</i> | Time: <i>3:00 PM</i> | Received By: <i>Phil Pumper</i> | Date: <i>10/15/09</i> | Time: <i>1900</i> |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

704 ENTERPRISE DRIVE • CEDAR FALLS, IA 50613
800-750-2401 • 319-277-2425 FAX

Sample Receipt and Temperature Log Form

Client: Fehr-Graham Associates Project: _____

City: Freeport, IL

Date: 10/15/09 Receiver's Initials: MH Time (Delivered): 1900

Temperature Record:

| | |
|----------------------------------------|--|
| Cooler ID# (If Applicable) | |
| <hr/> | |
| 7.5 °C <input type="checkbox"/> On Ice | |

Temp Blank

Temperature out of compliance

Thermometer:

- IR - 90876942 'C'
- IR - 61997671 'B'
- IR - 61854108
- 22126775

Courier:

- UPS
- FedEx
- FedEx Ground
- US Postal Service
- Spee-Dee
- TA Courier
- TA Field Services
- Client
- Other

Exceptions Noted

| | |
|-------------------------------------|-------------------------------------------|
| <input type="checkbox"/> | Sample(s) not received in a cooler. |
| <input checked="" type="checkbox"/> | Samples(s) received same day of sampling. |
| <input type="checkbox"/> | Evidence of a chilling process |
| <input type="checkbox"/> | Temperature not taken: <hr/> |

Loc. @ front wilkin

*Refer to SOP CF-SS-01 for Temperature Criteria

P:\QA Forms & Log Book\pgs\Cooler Receipt rev15.doc

No trip Blank RevD 10/16/09 84
Notified Joel Zirkle

TABLE 1
ANALYTE LIST

Acetone*
1,1-Dichloroethane*
1,2-Dichloroethane
1,1-Dichloroethene*
cis-1,2-Dichloroelhene*
trans-1,2-Dichloroethene
1,4 Dioxane** (8260B SIM) ← method
Methylene Chloride
Tetrachloroethene*
1,1,1-Trichloroethane*
1,1,2-Trichloroethane
Trichloroethene*
Vinyl Chloride***
Total Xylenes*

- * Required by Sauer-Danfoss's Permit No. 6593-3.
** Required for select monitoring wells.
*** Beginning second quarter 2002, as requested in the United States Environmental Protection Agency (US EPA) comments on the 2002 Annual Site Sampling Report.